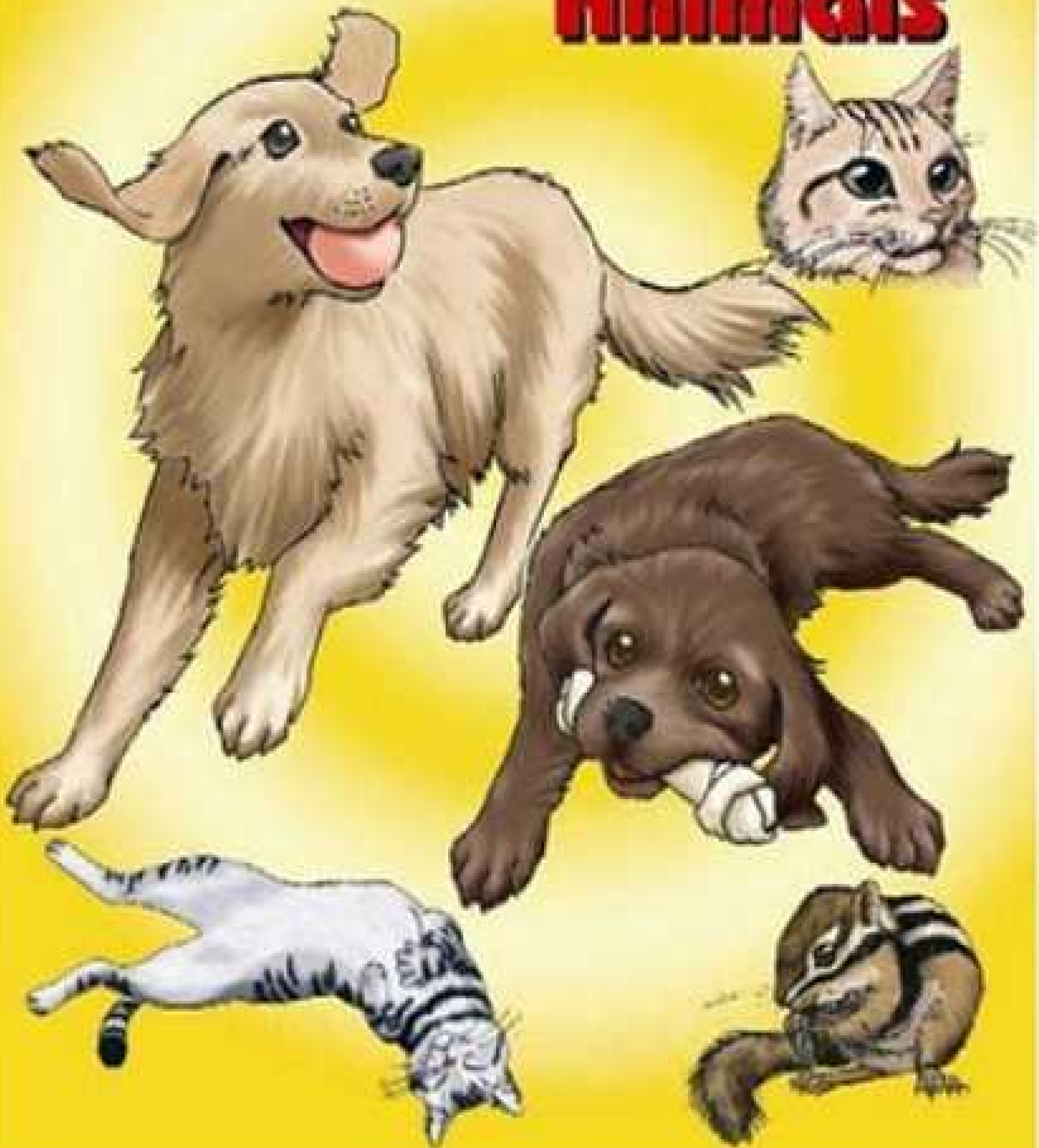


# HOW TO DRAW

# MANGA

## Animals

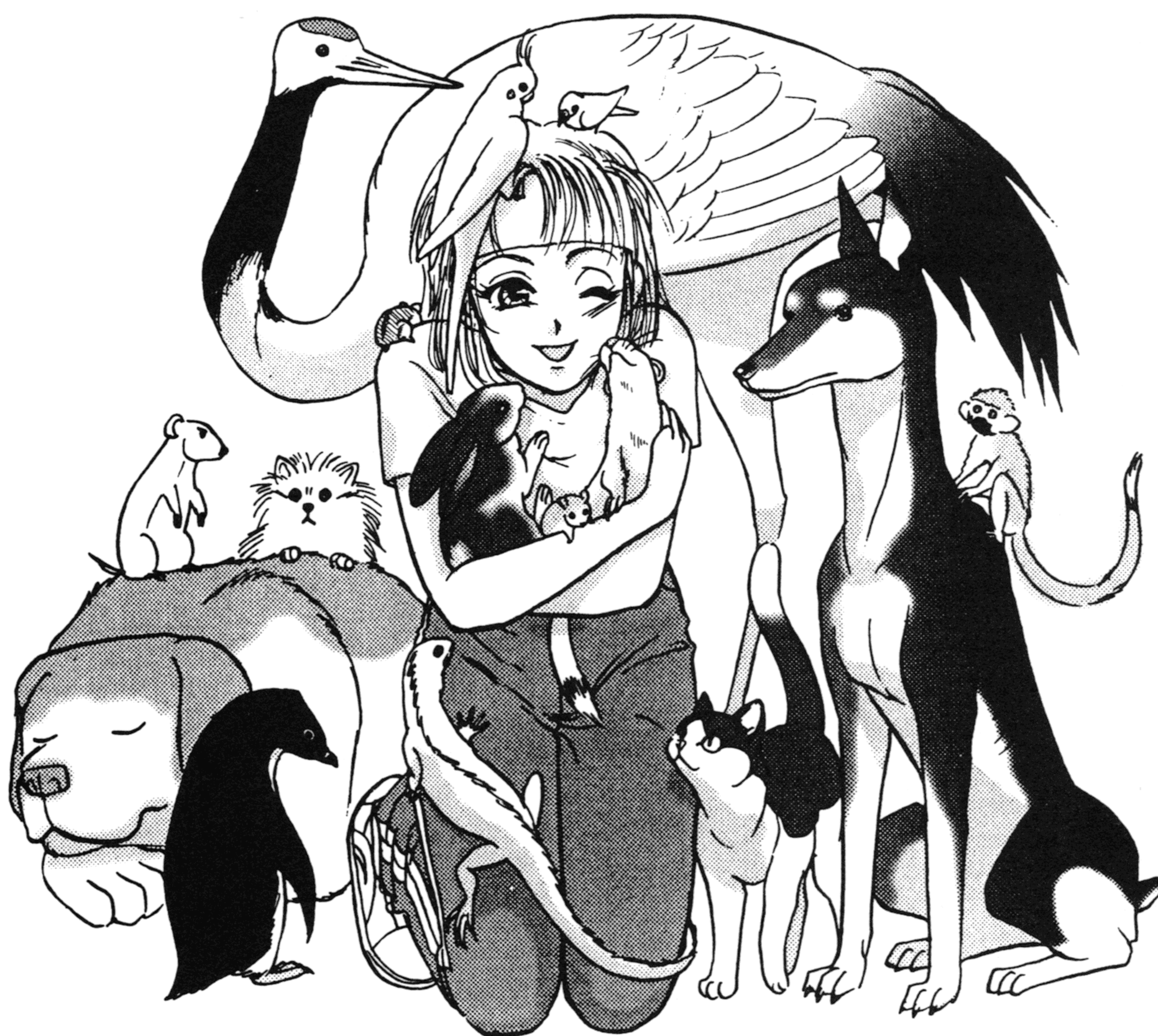




# HOW TO DRAW **MANGA**

## ***Animals***

***Pets, Wild Animals, and Birds***





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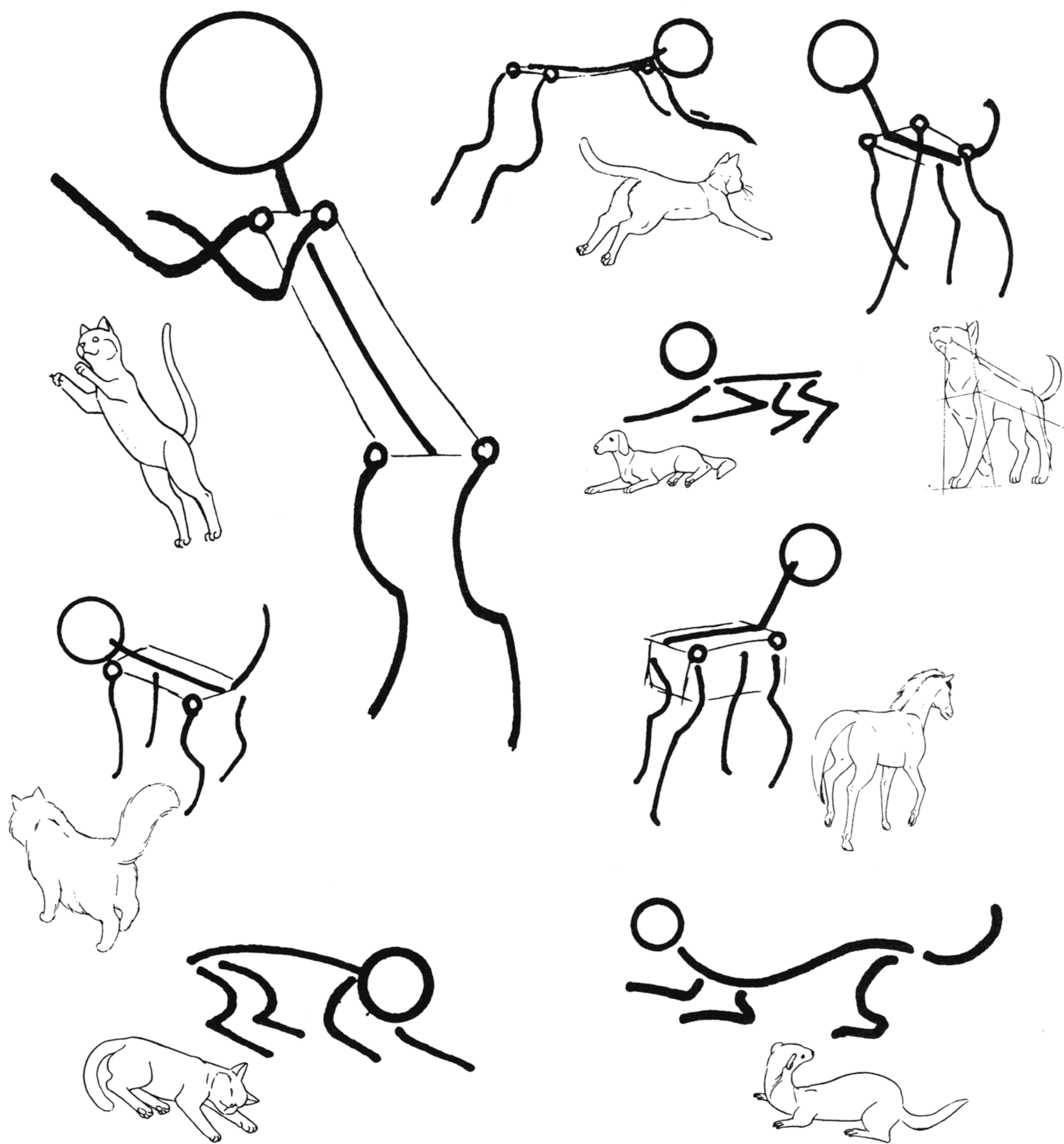
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# Chapter 1

## The ABCs of Drawing Animals



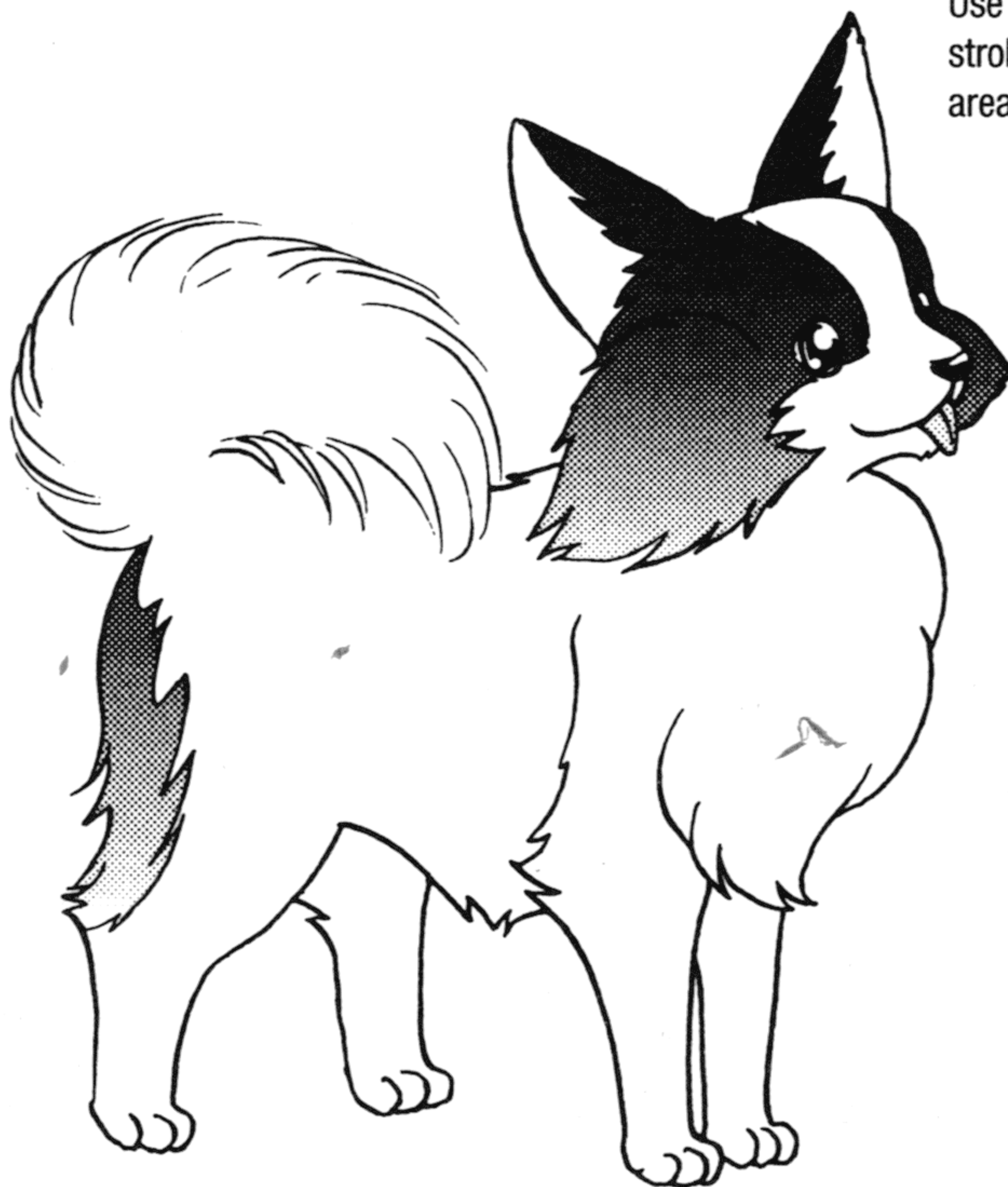


Abstract and simplify while drawing the animal's entire figure. You can still draw an animal without reproducing each strand of fur on its body.



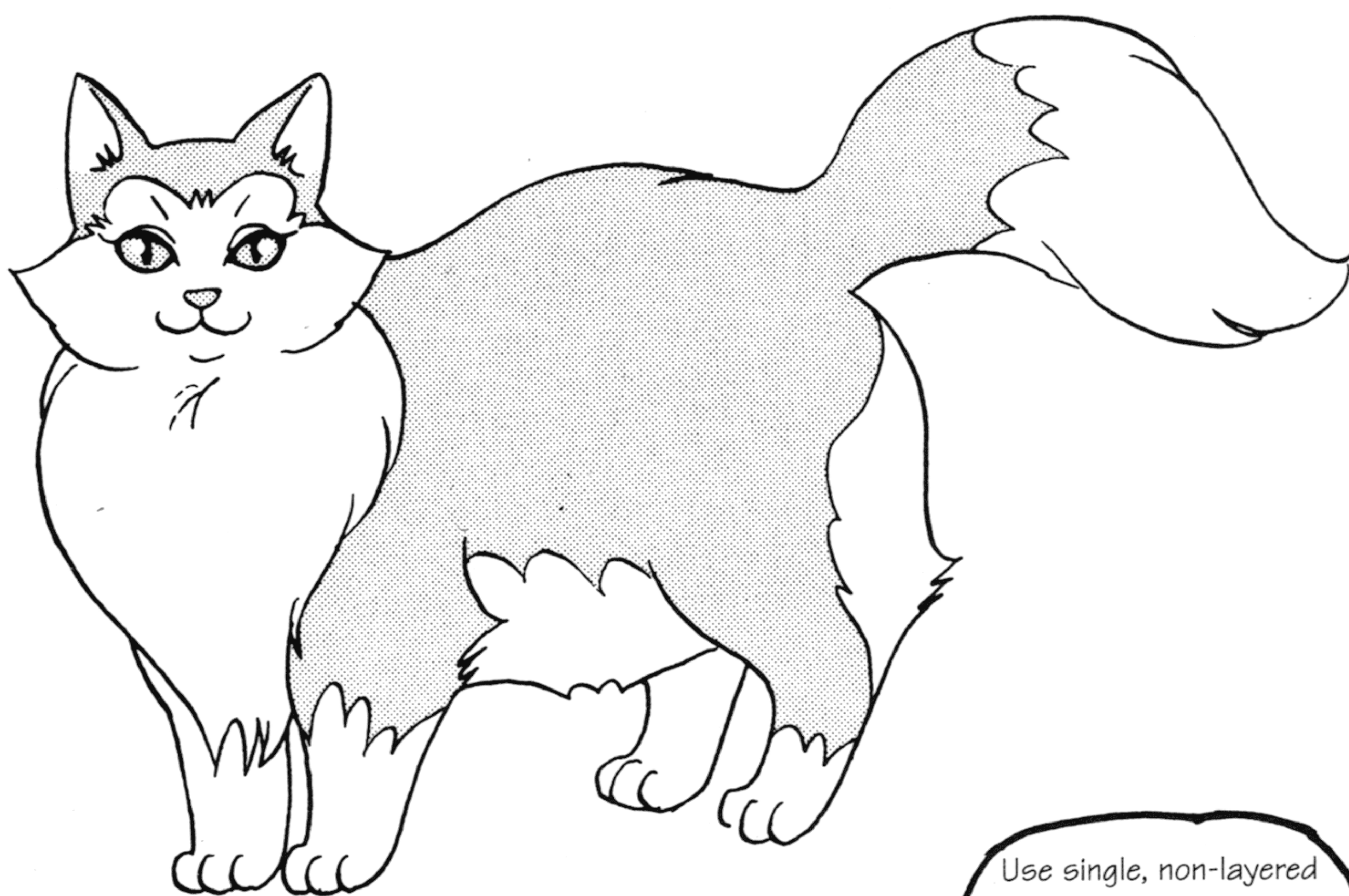
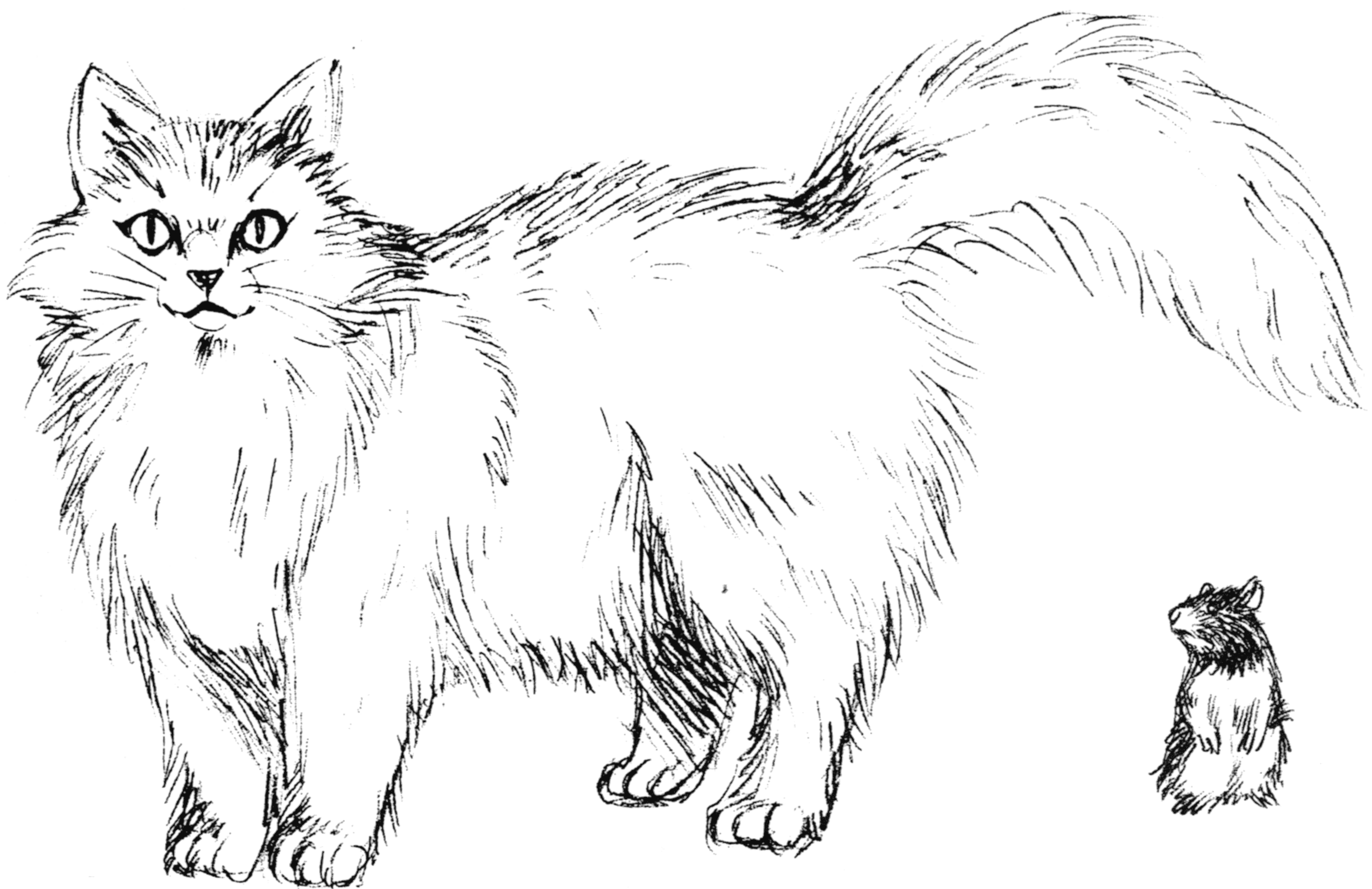
The whiskers are usually omitted.

Use wispy, jagged strokes to recreate areas of fluffy fur.



Include the fur when drawing the figure's silhouette.





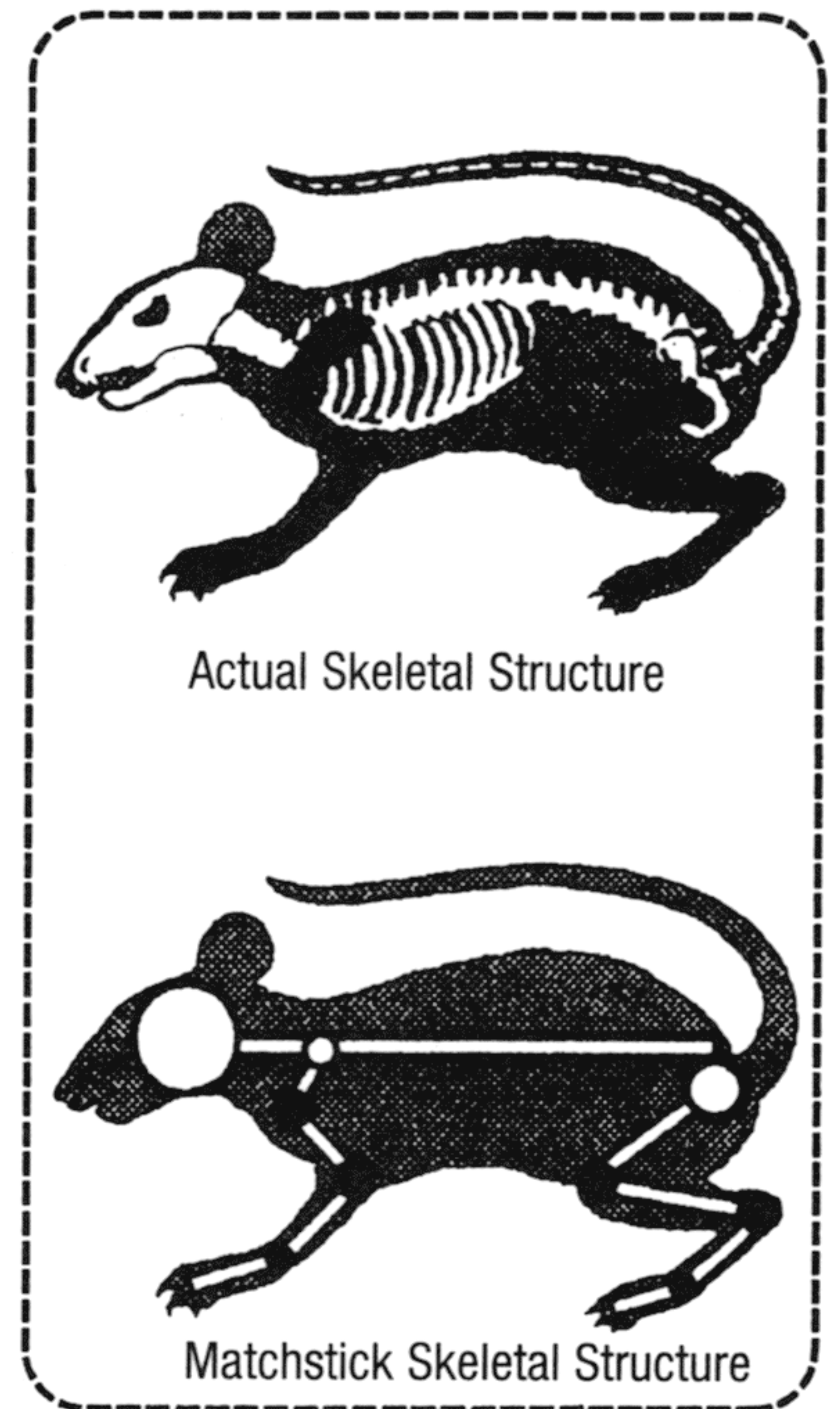
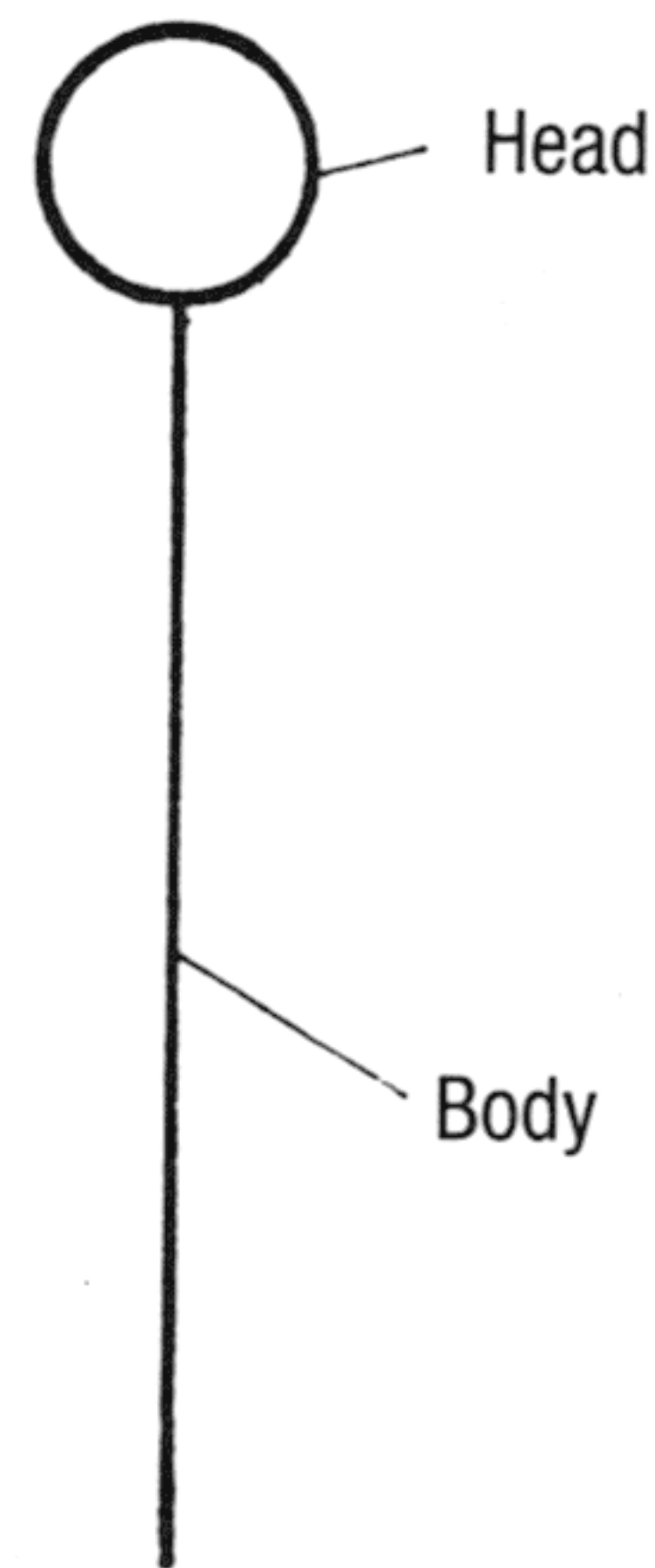
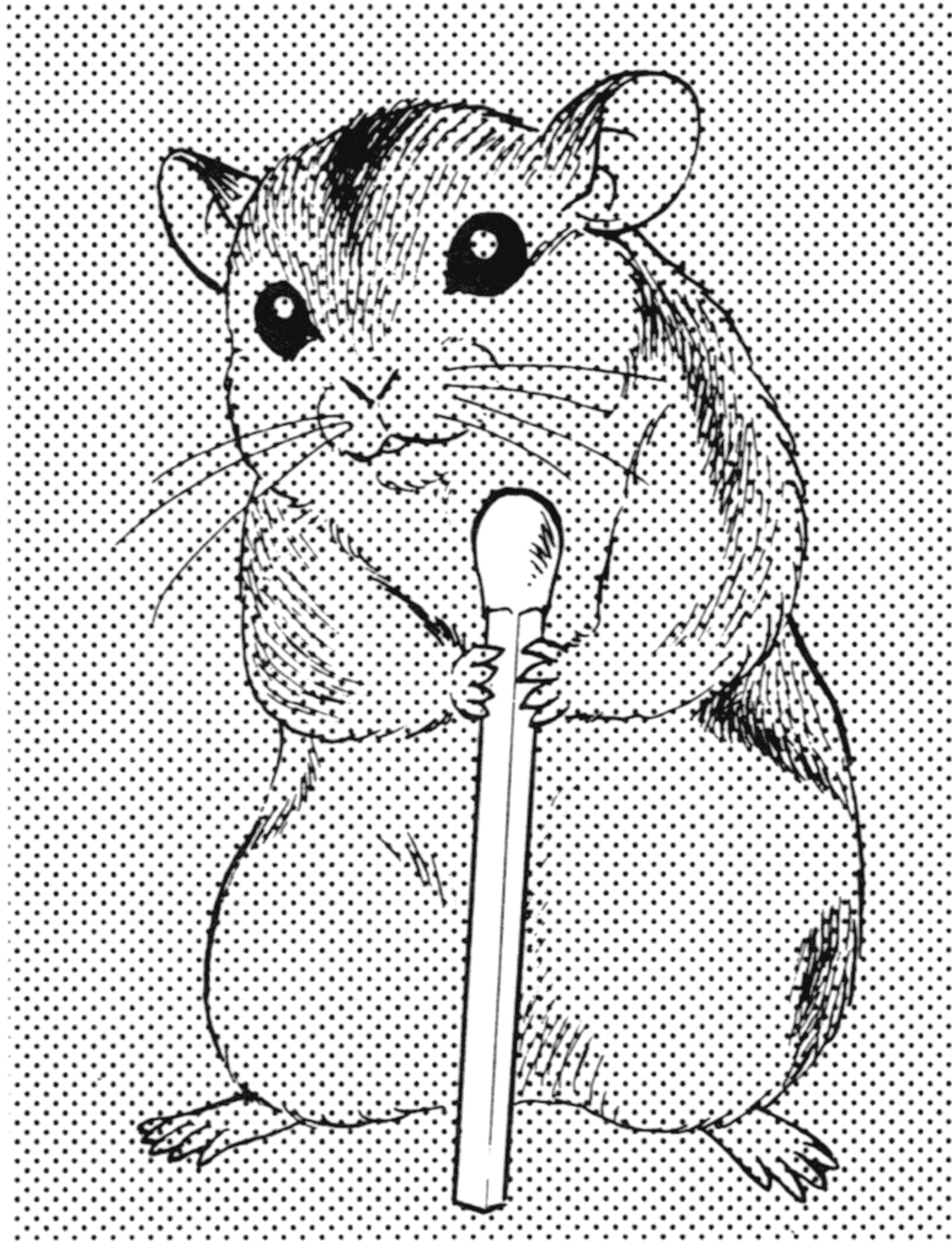
Use single, non-layered strokes to draw a kitty's outer contours. You can do the same with other animals too!



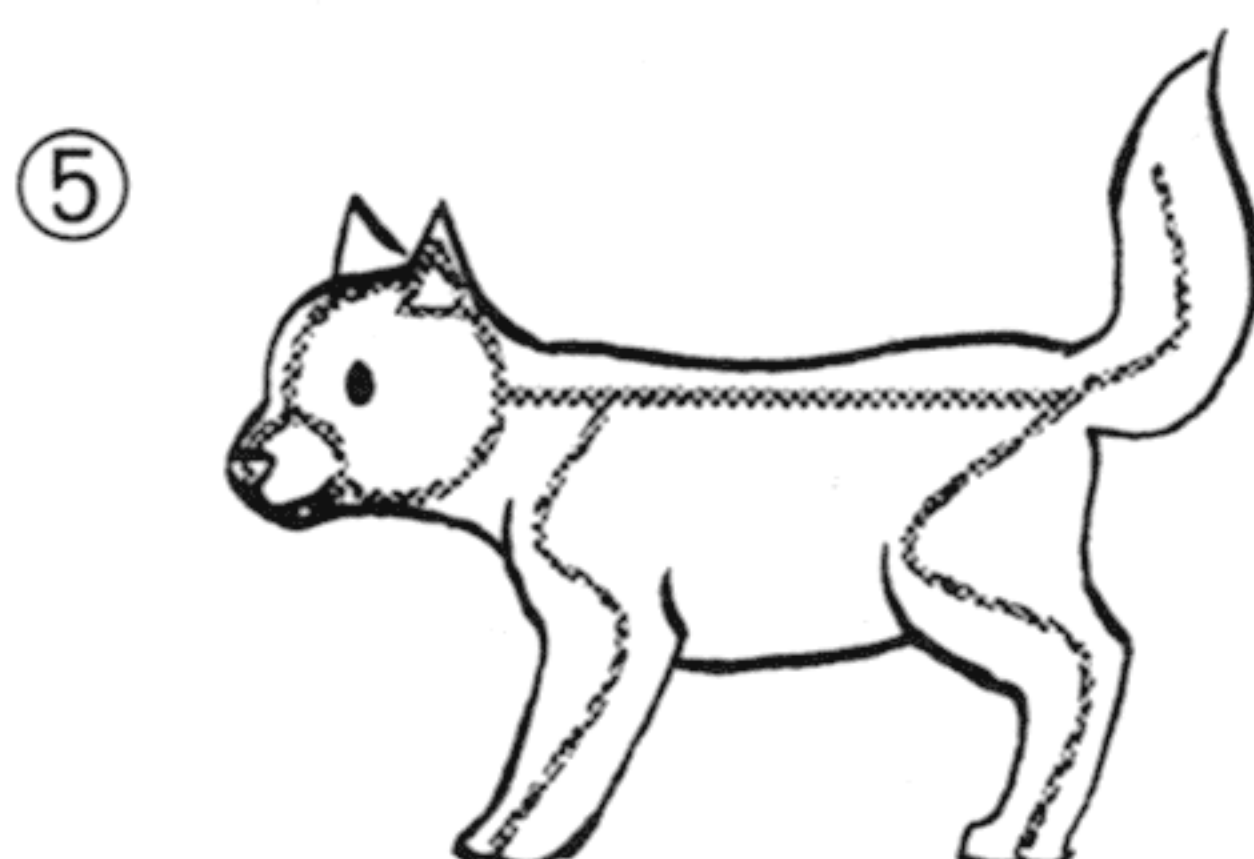
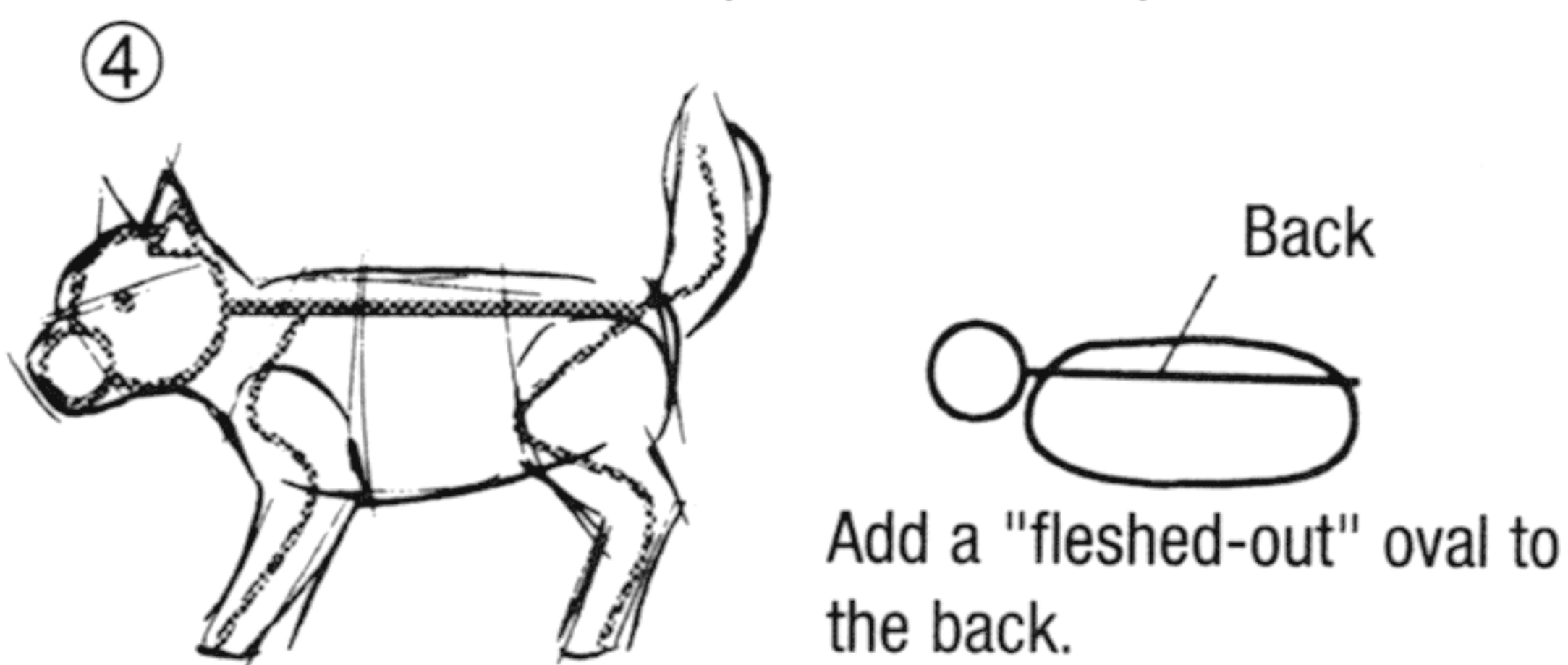
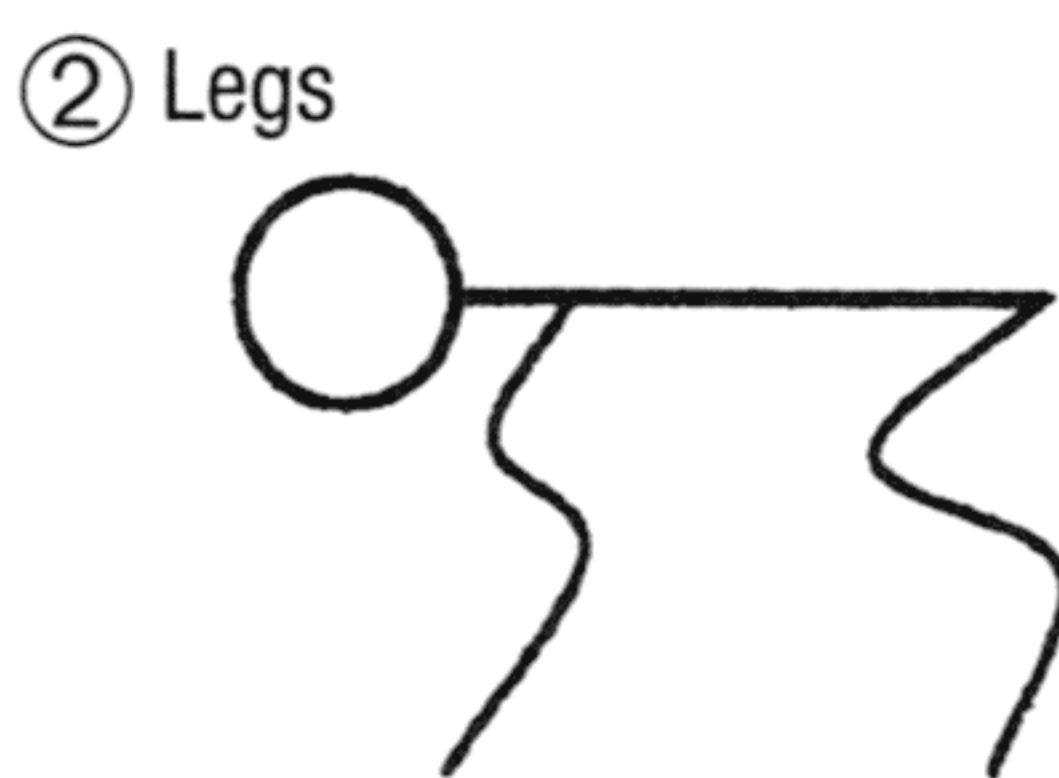
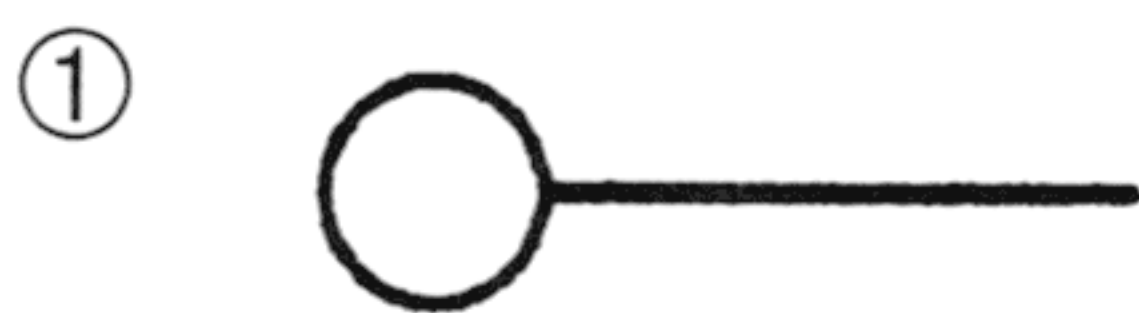


# Making Animals with Matchsticks

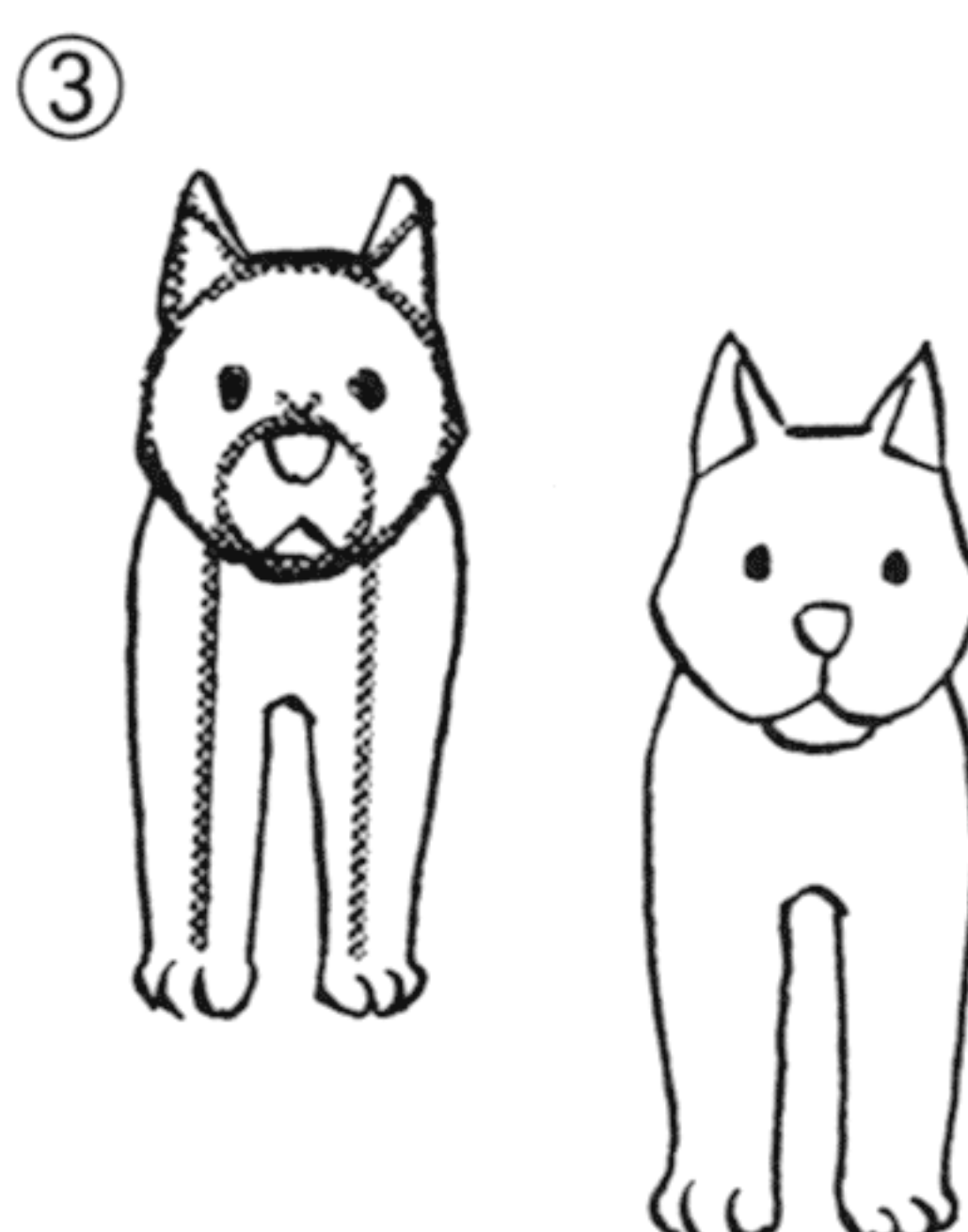
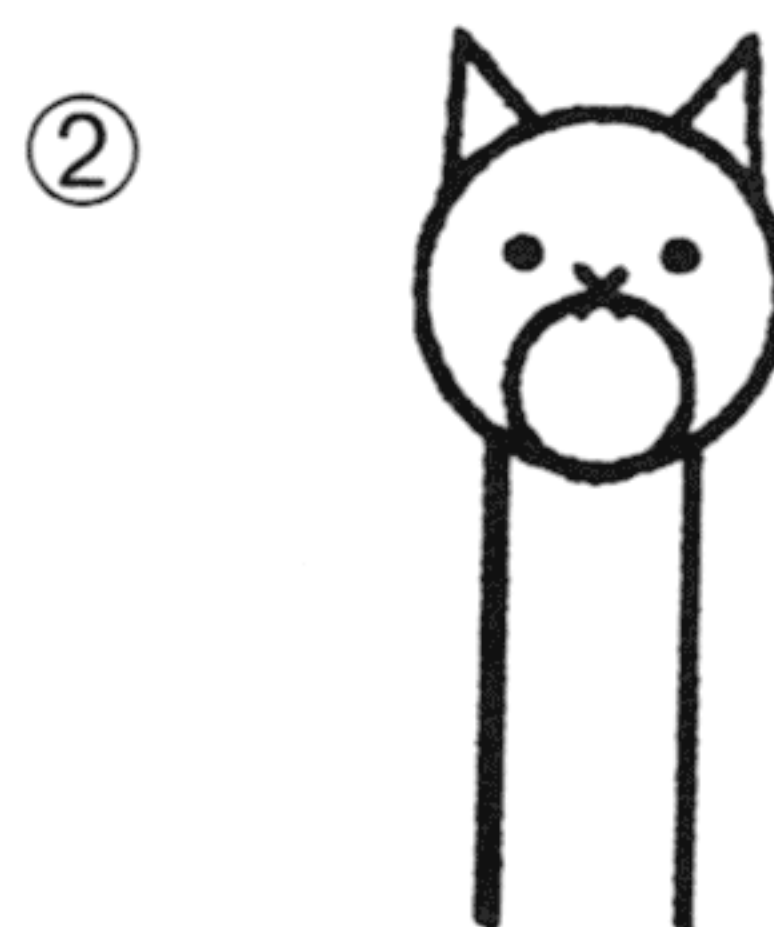
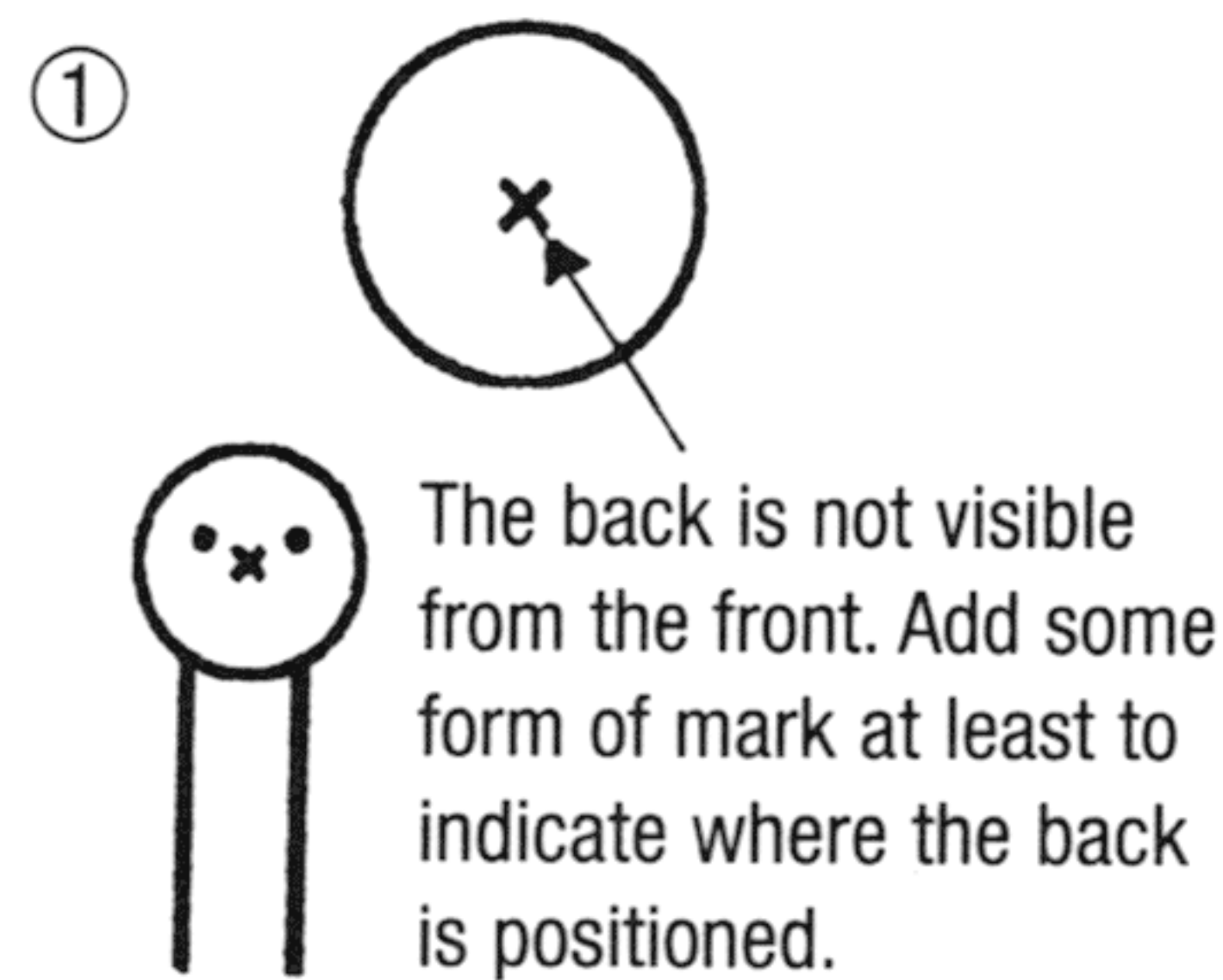
Using a matchstick to portray the animal's head and back makes drawing any number of positions a snap.



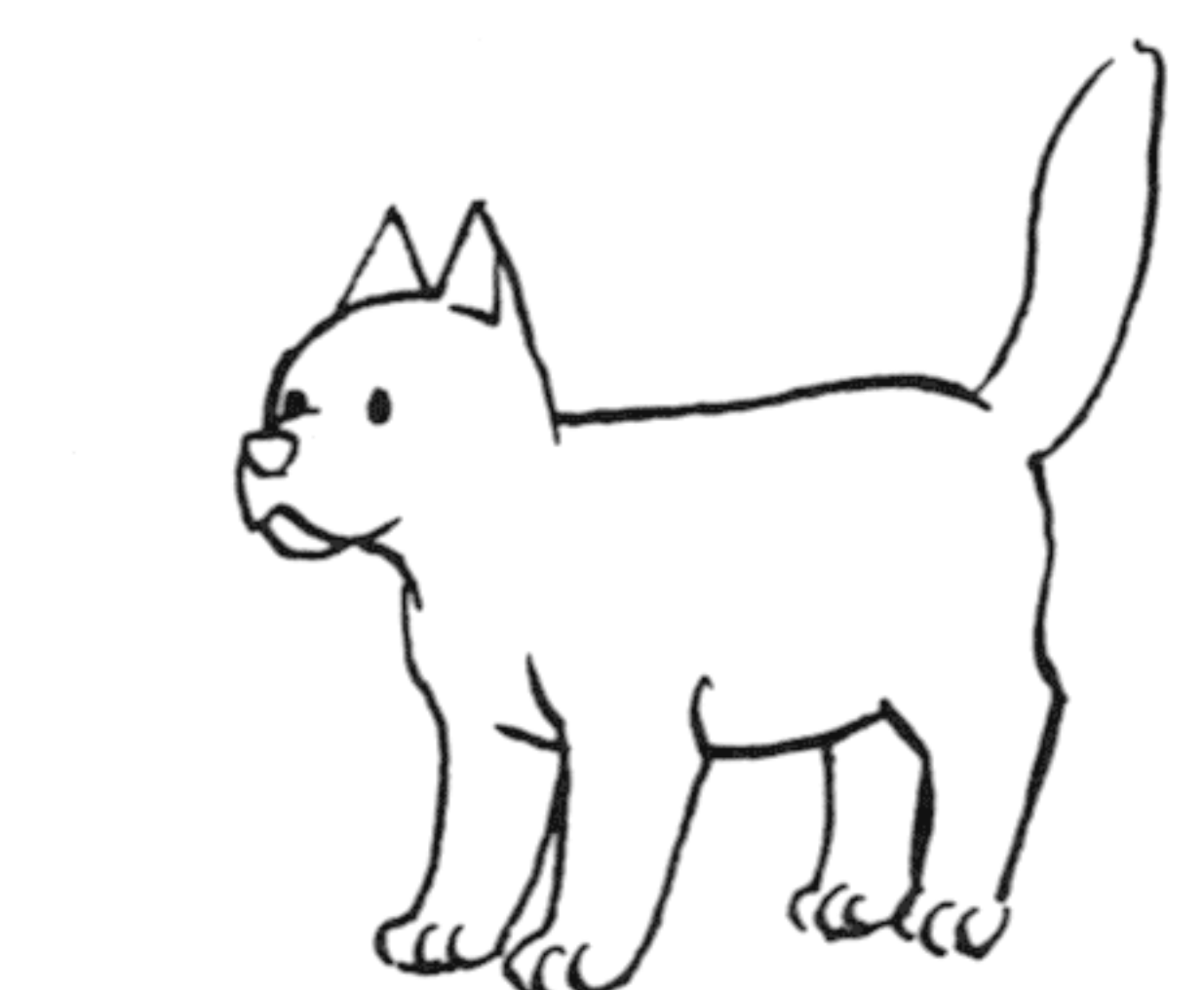
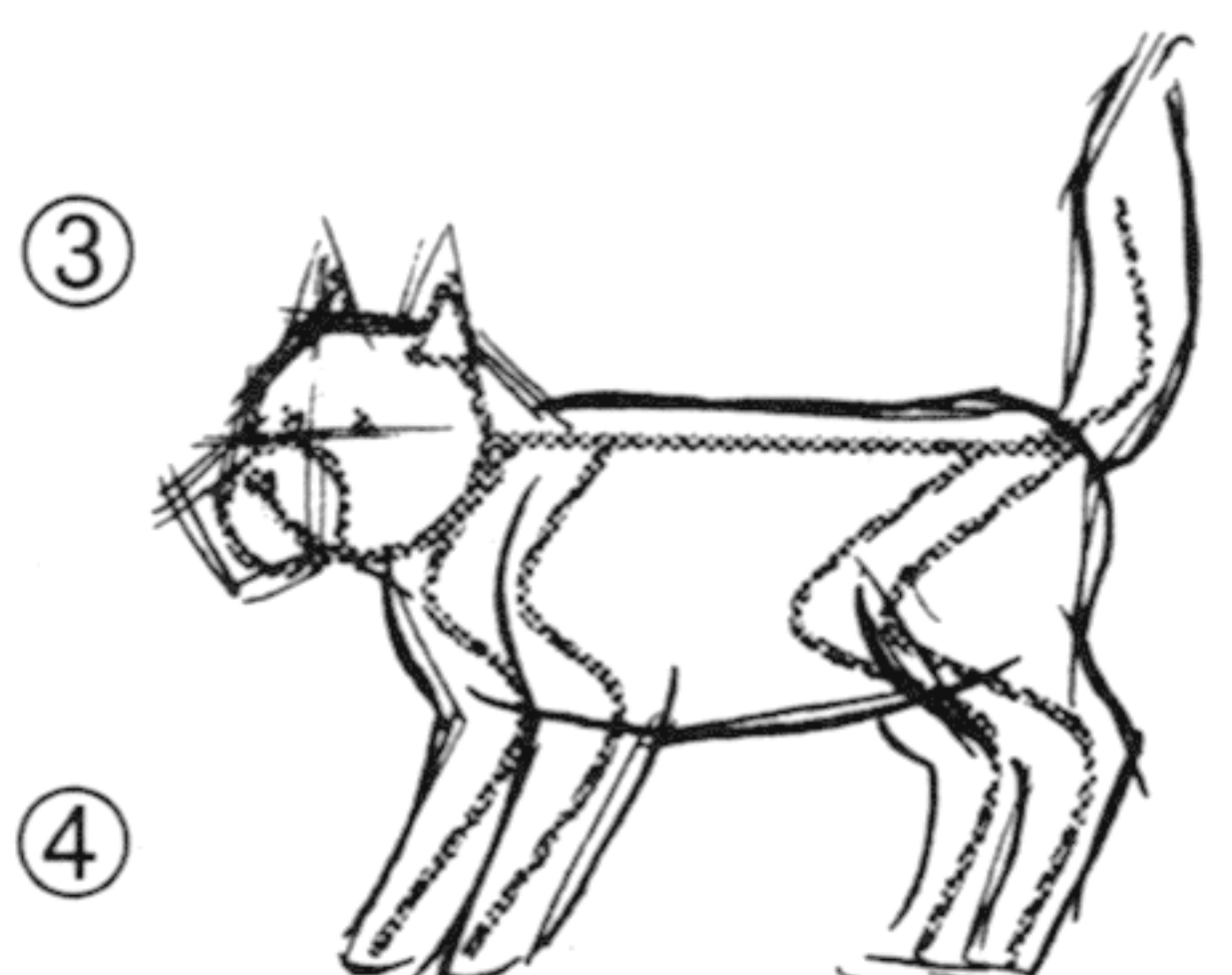
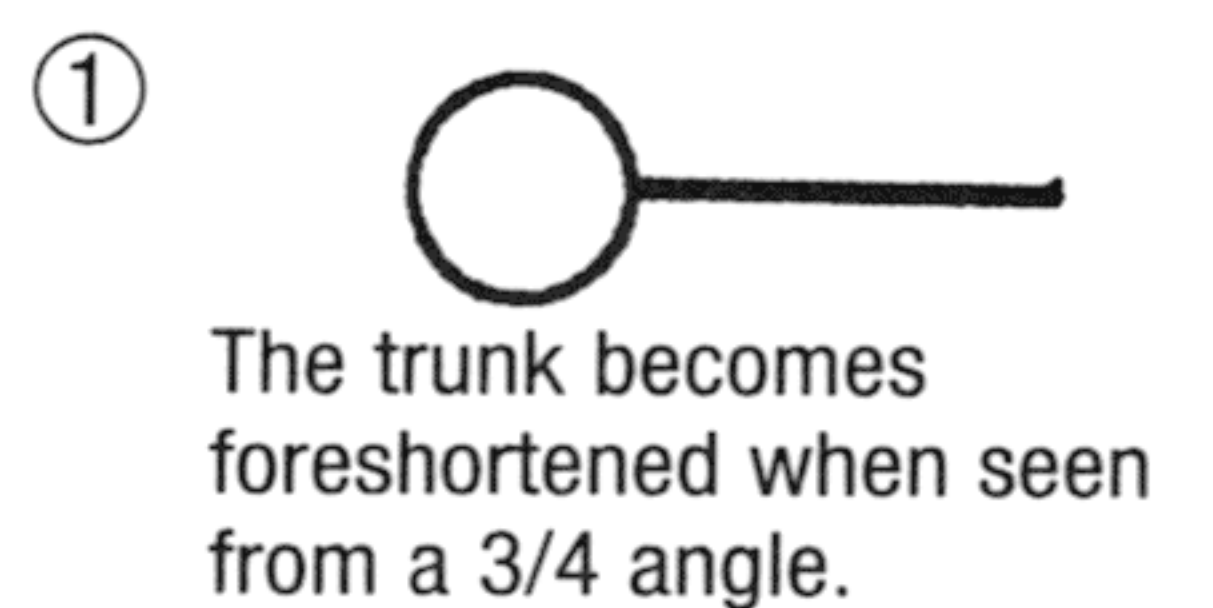
## Side View



## Front View



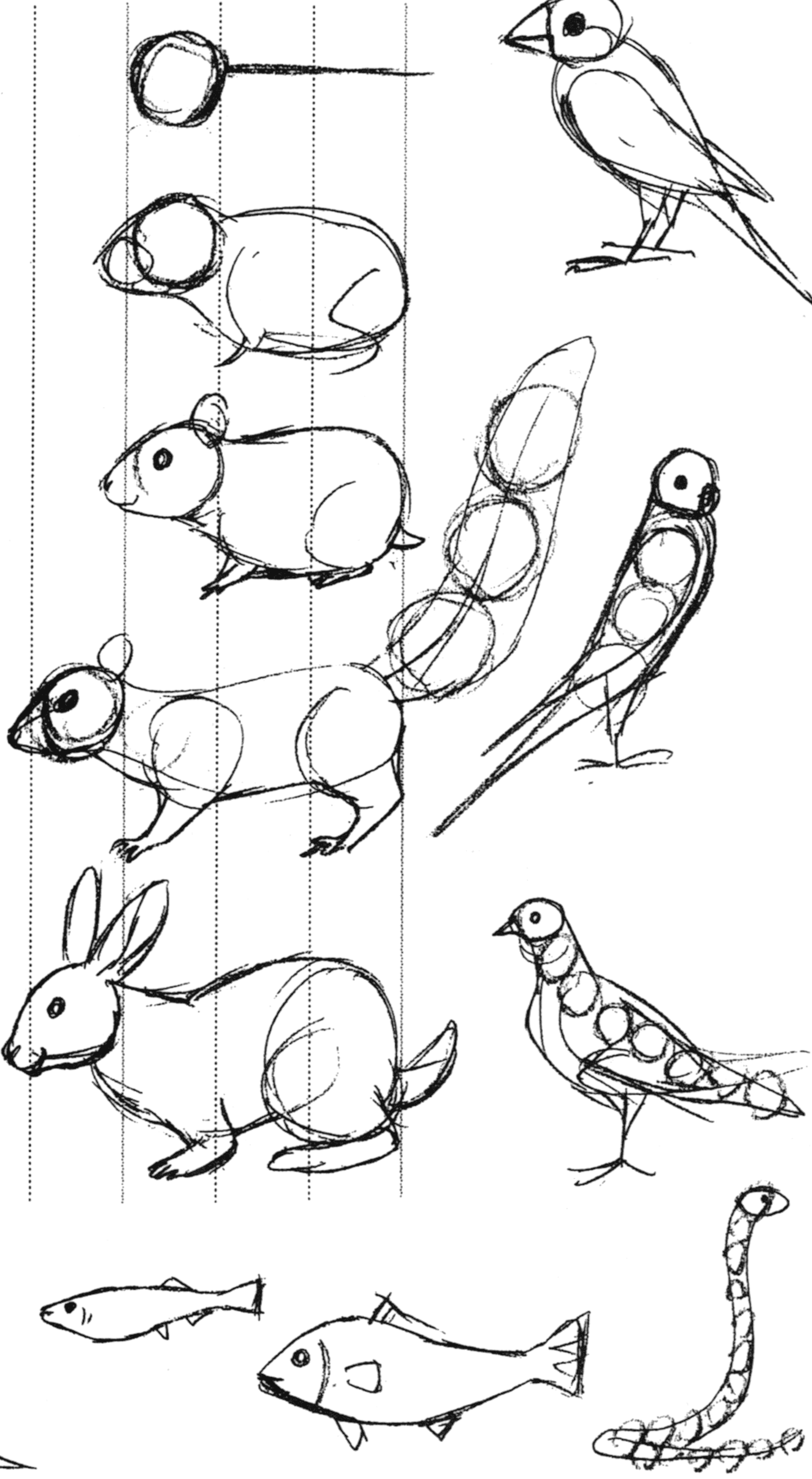
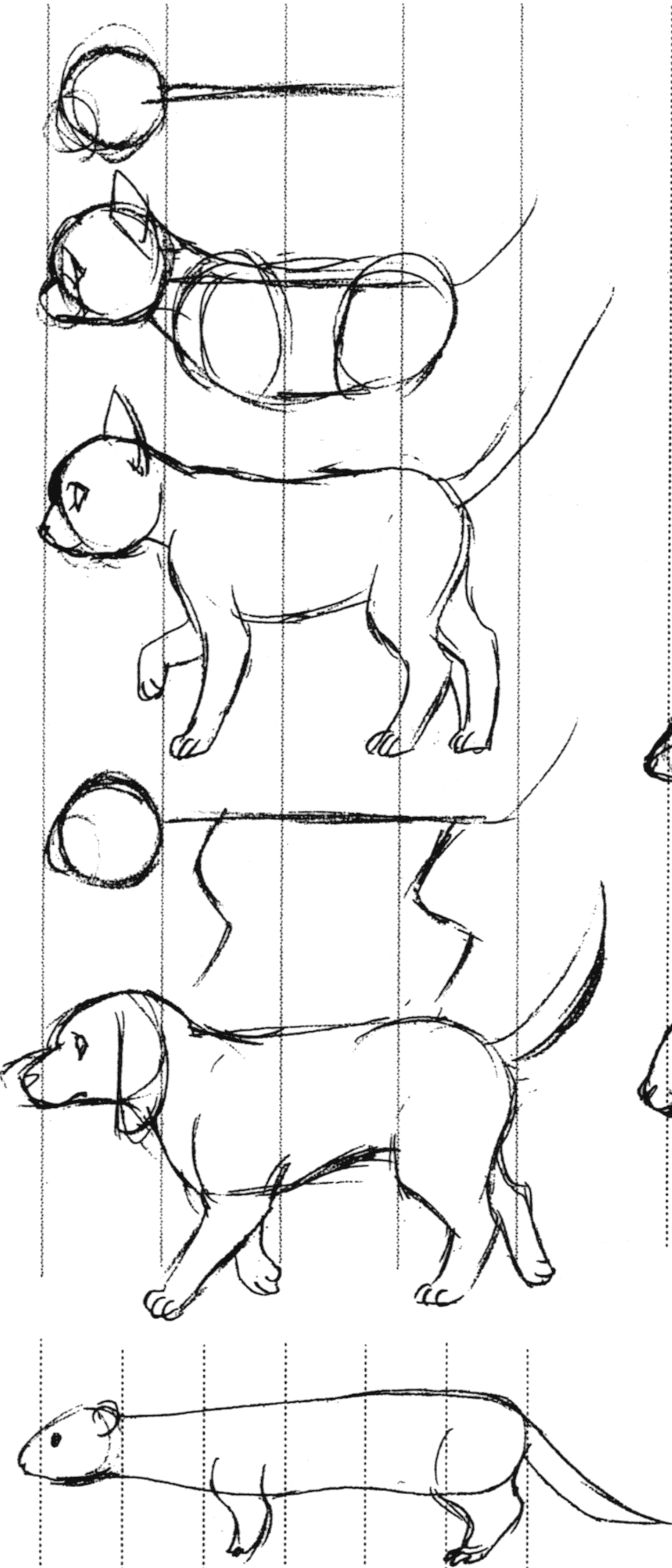
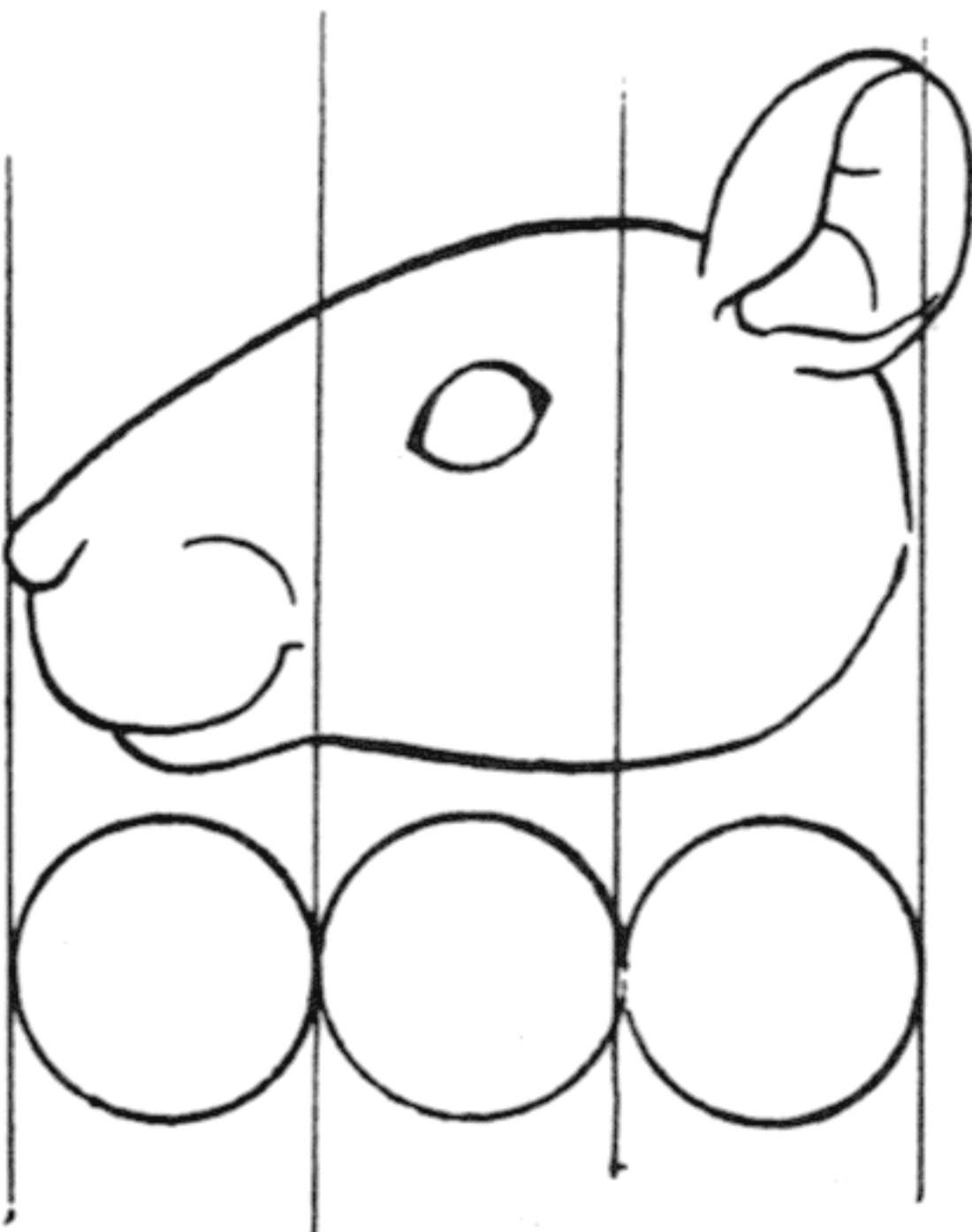
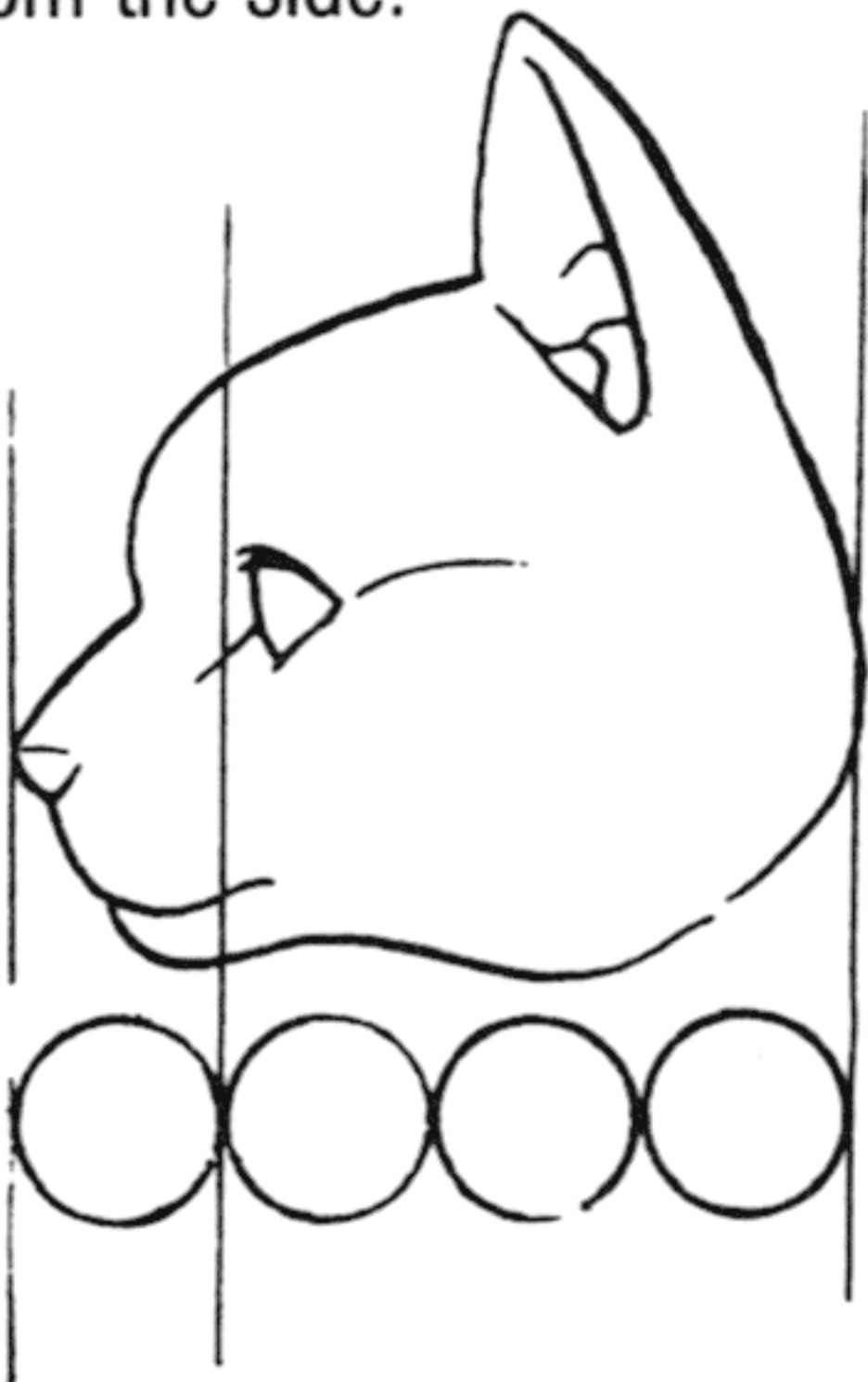
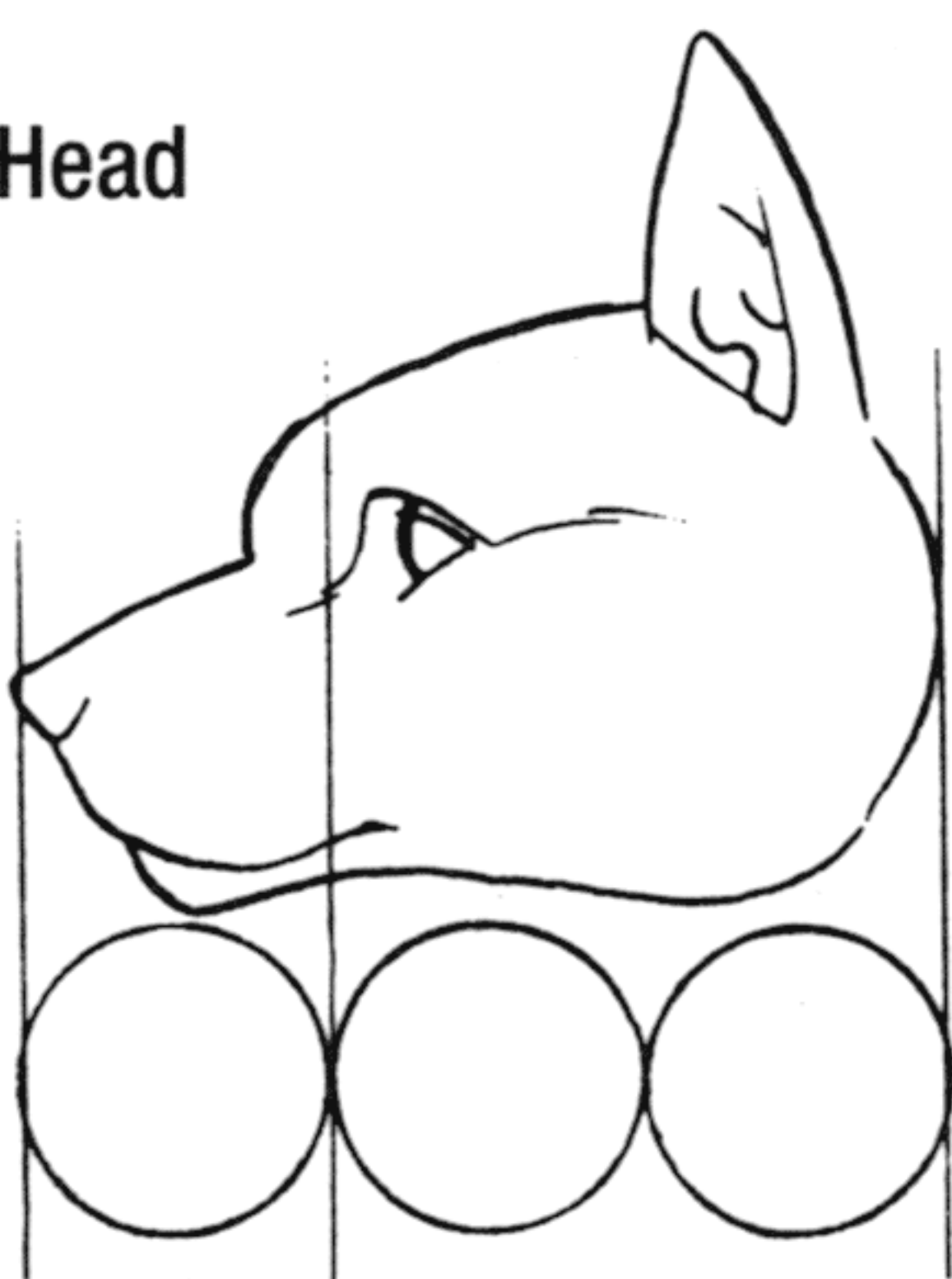
## 3/4 View





**Head-to-Body Ratios** These ratios serve as a guide when determining the length of the face or body seen from the side.

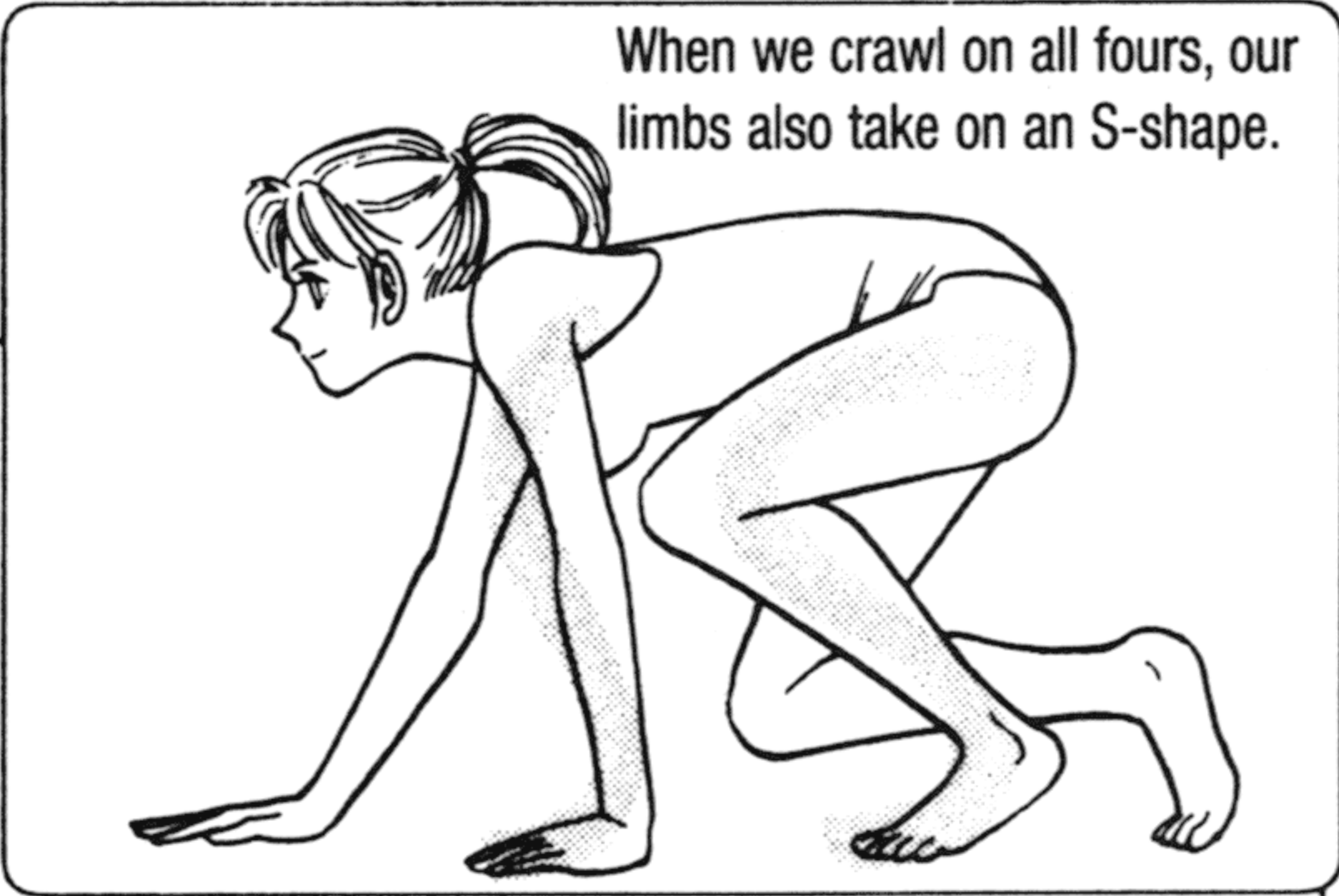
**Balancing the Head and Snout**



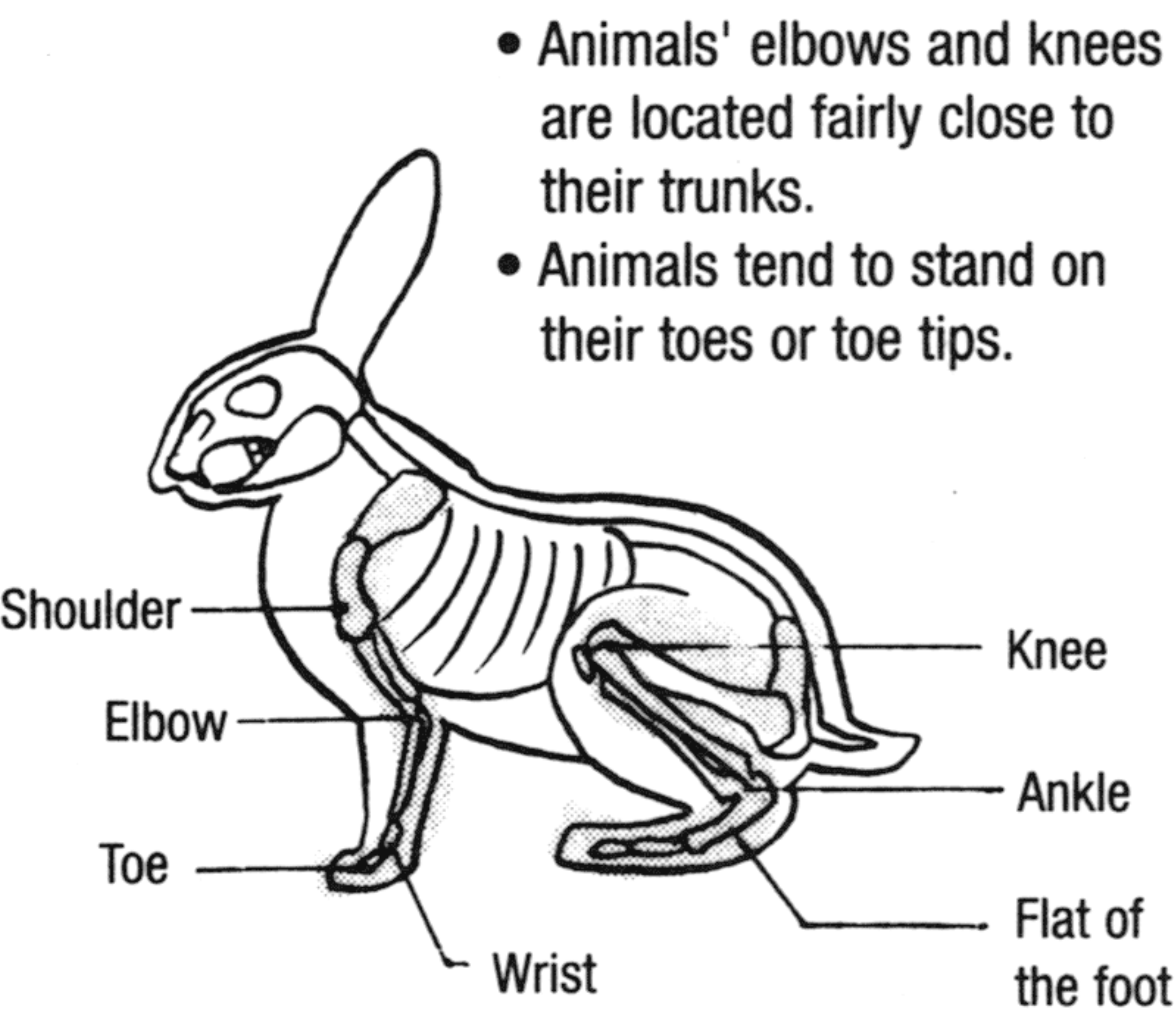
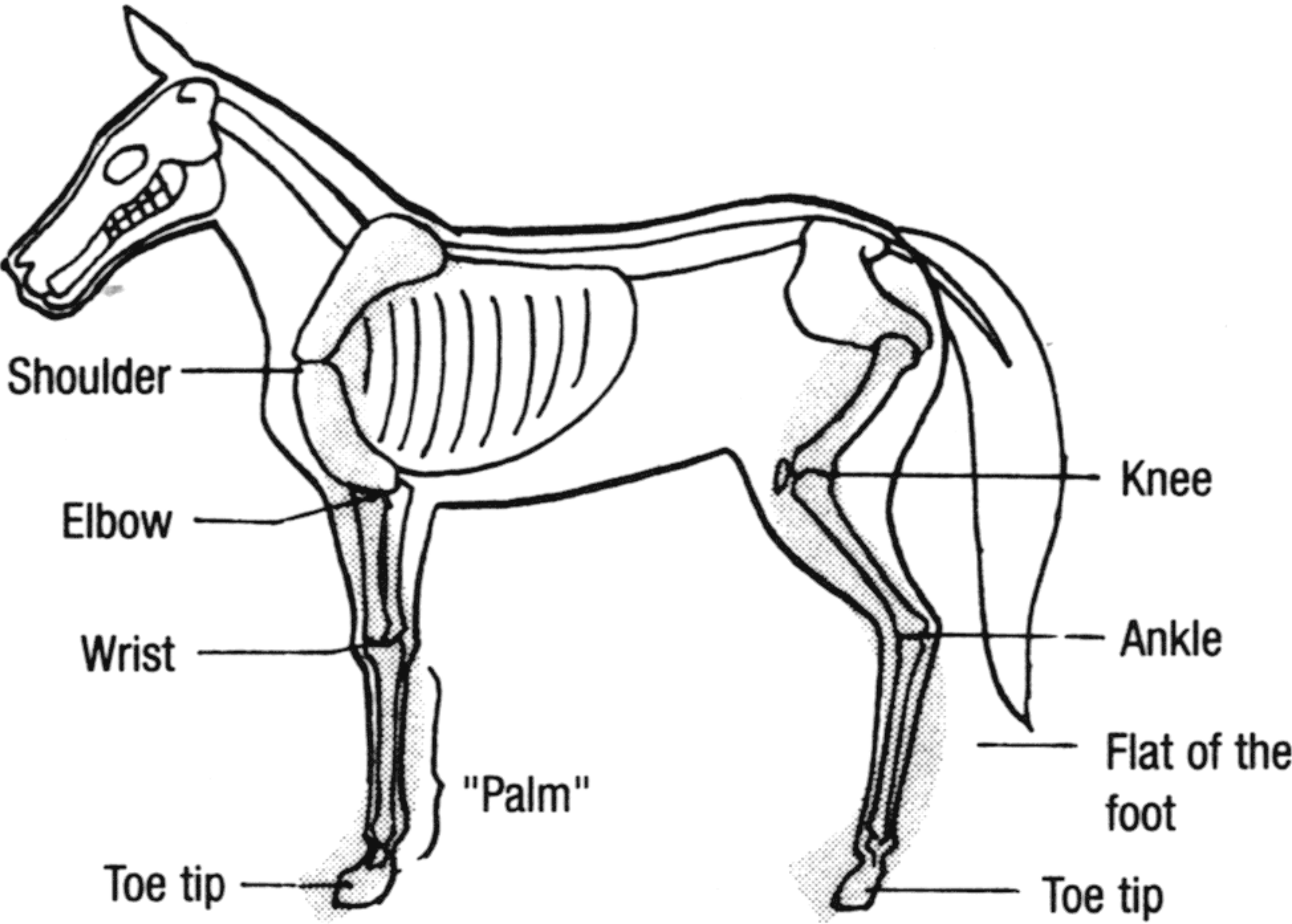
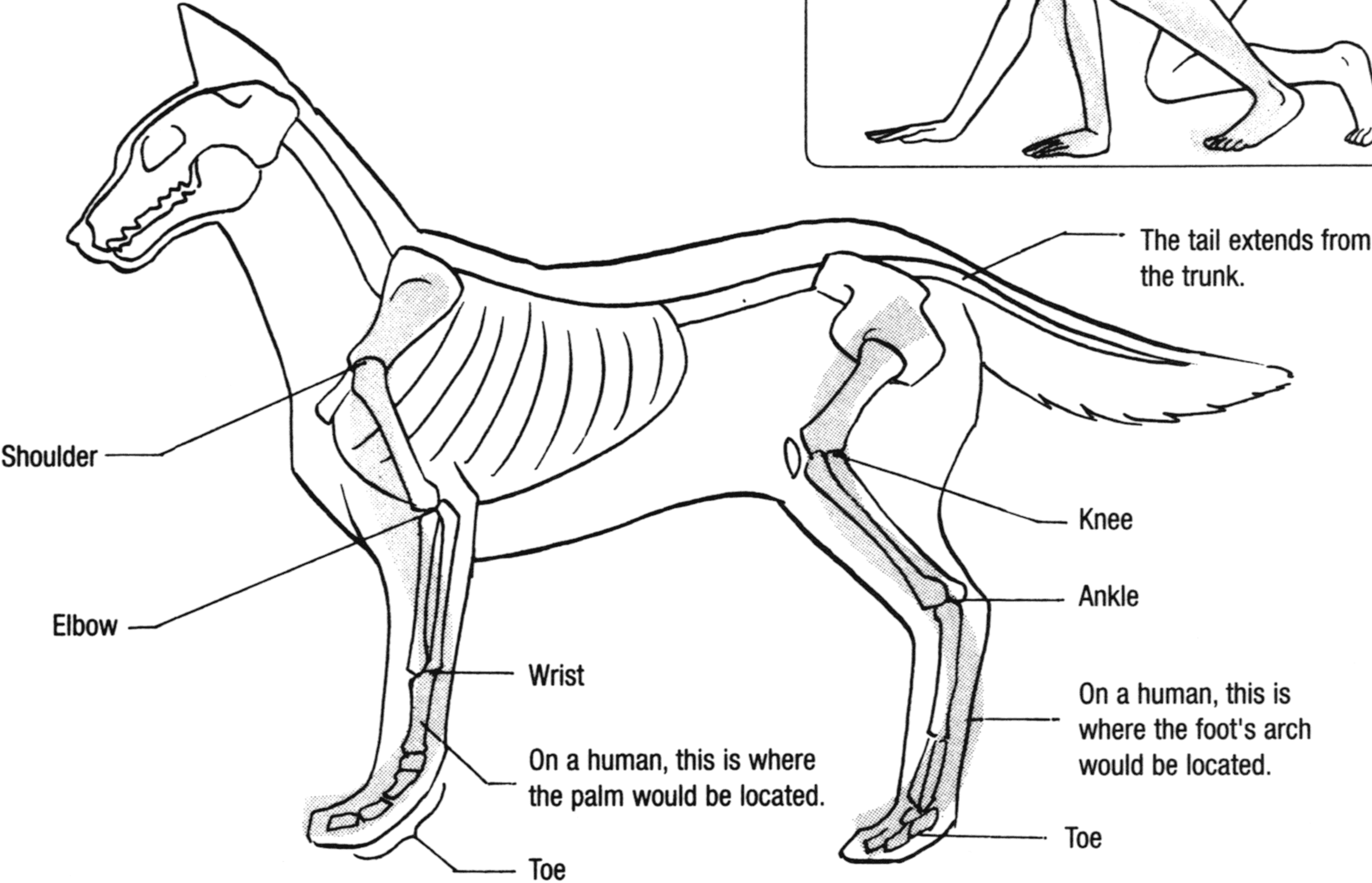
Snakes have bodies made up of ten or more heads in length.



# The S-shaped Legs

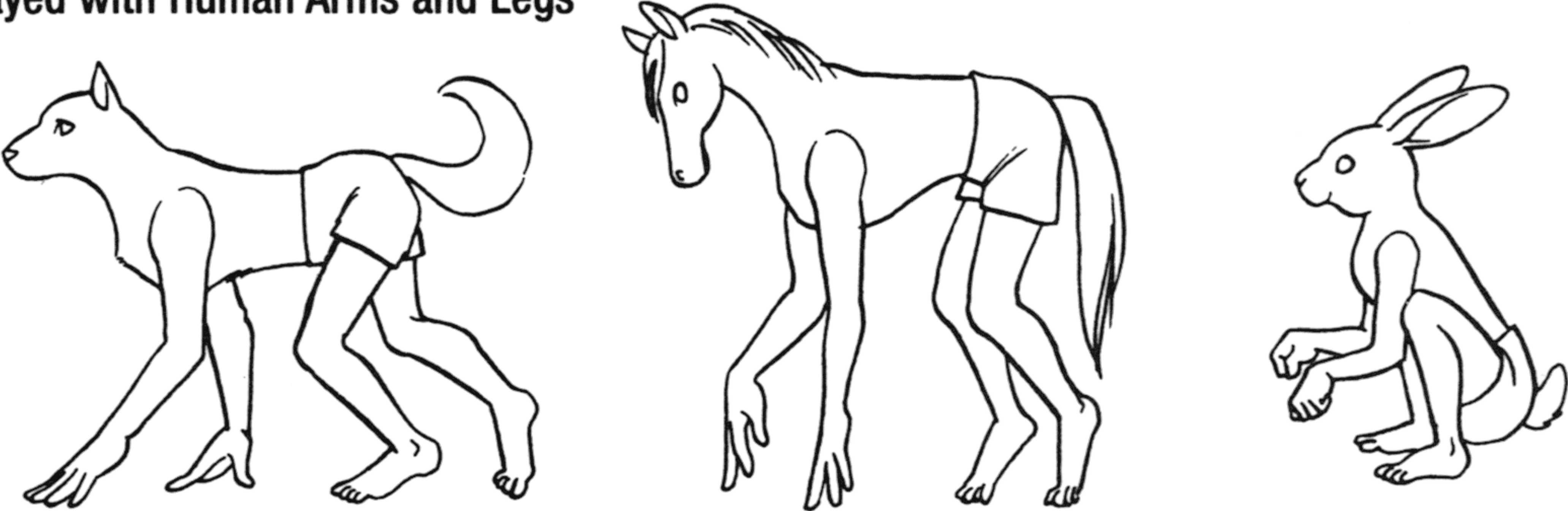


Ex.: Dog



- Animals' elbows and knees are located fairly close to their trunks.
- Animals tend to stand on their toes or toe tips.

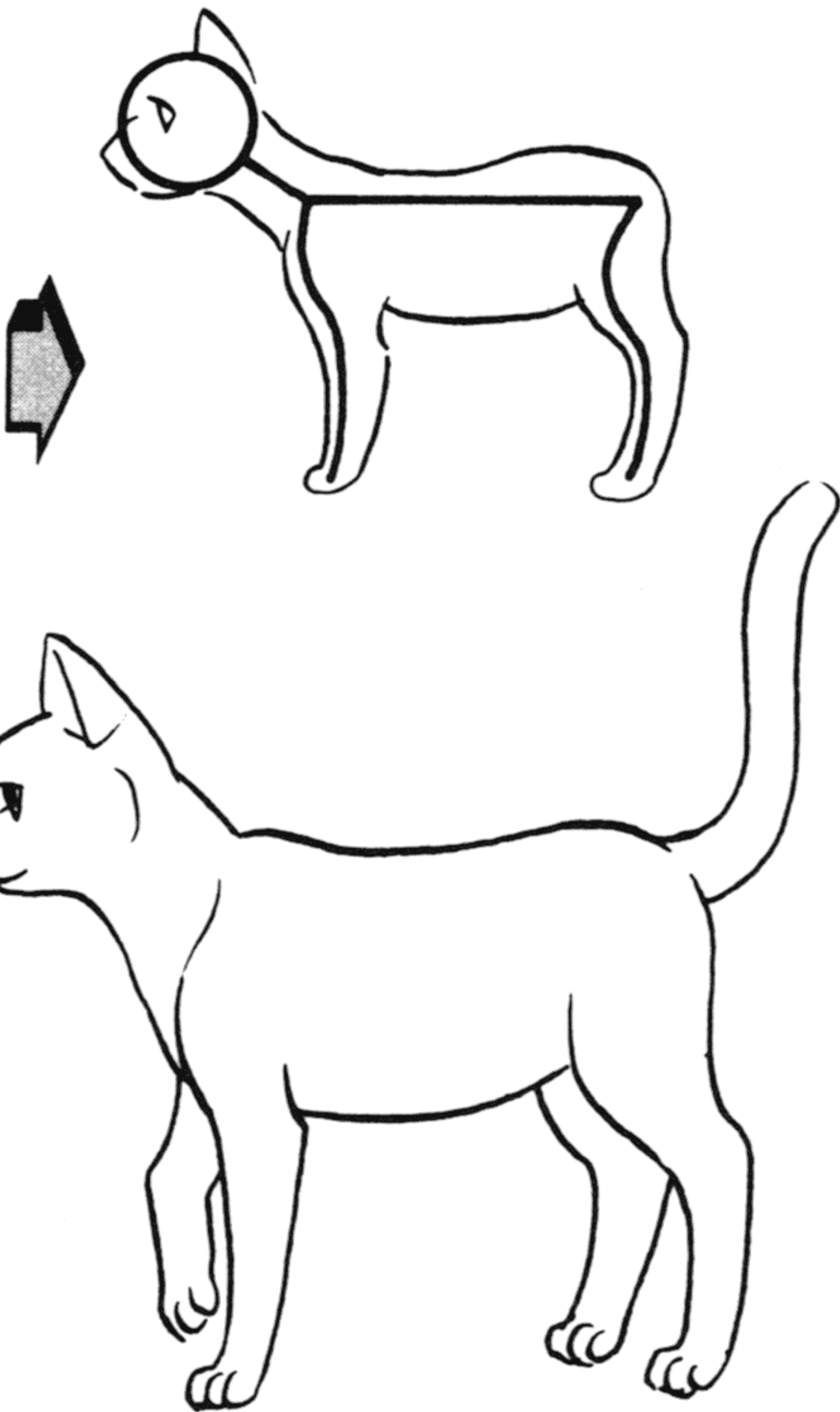
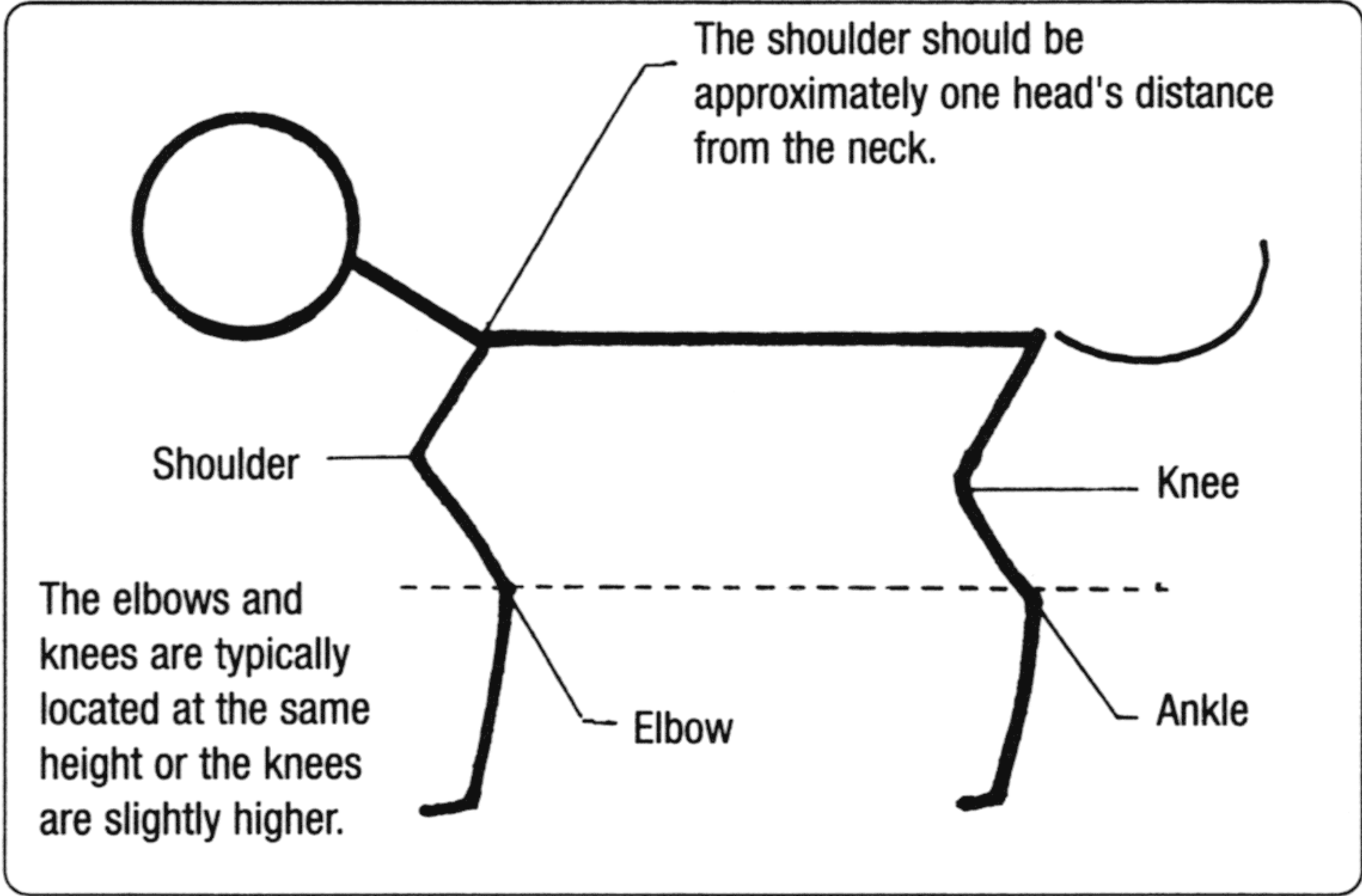
## Animals Portrayed with Human Arms and Legs





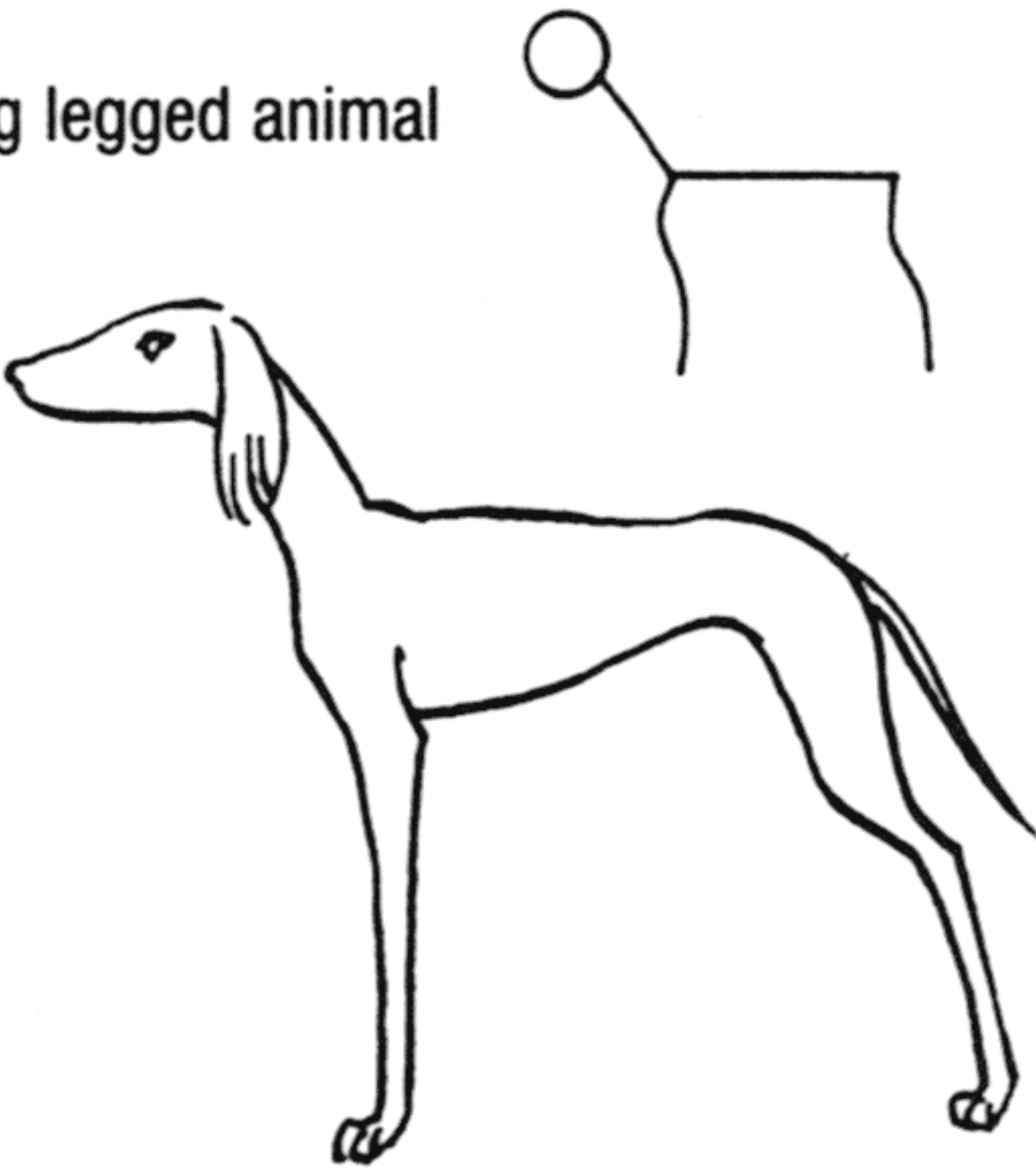
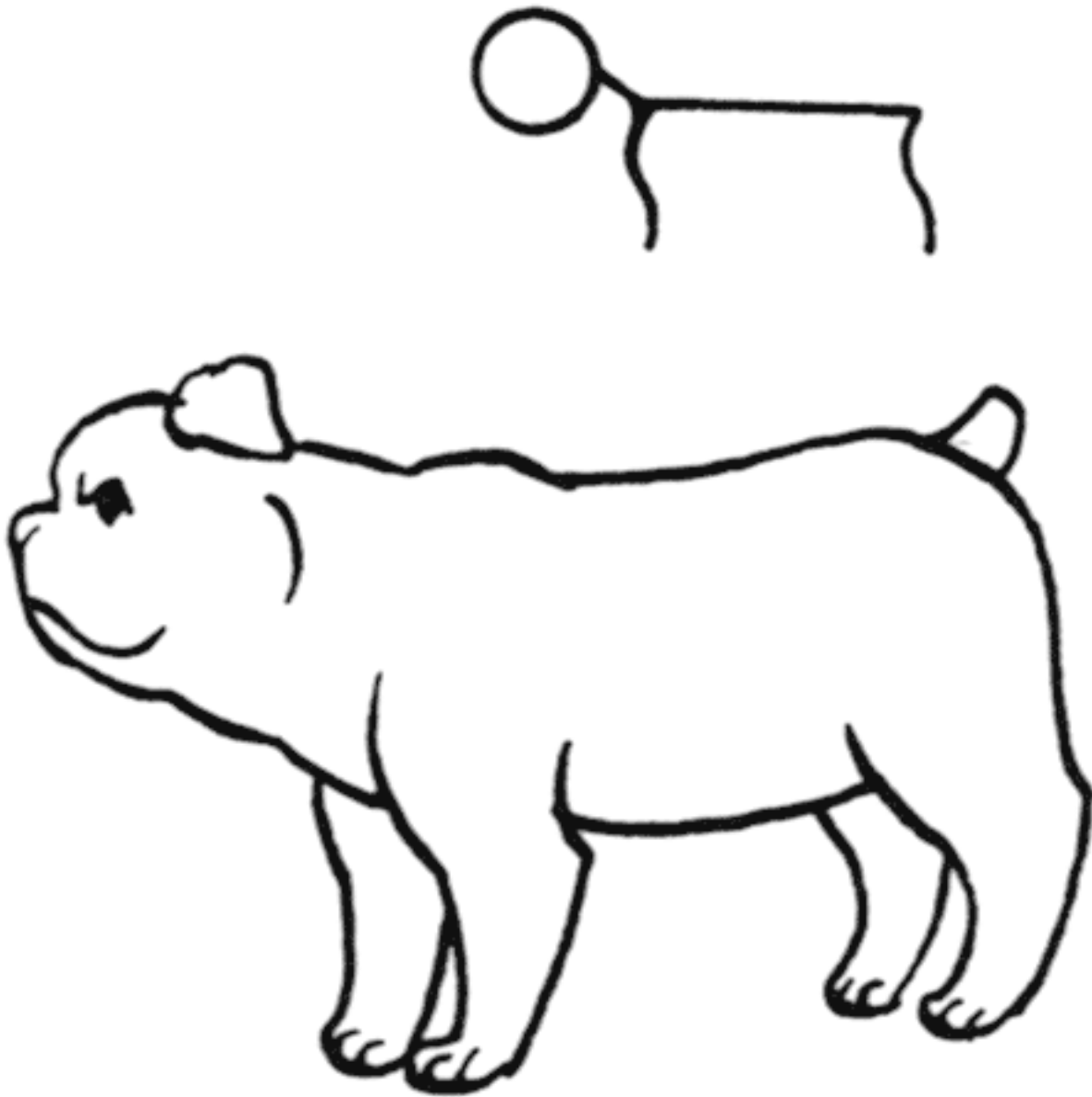
# Sample Drawing: Starting with a Diagram

S-Curves Give S-curves to the matchsticks you use for the skeletal structure. This is the secret to successfully drawing animals.



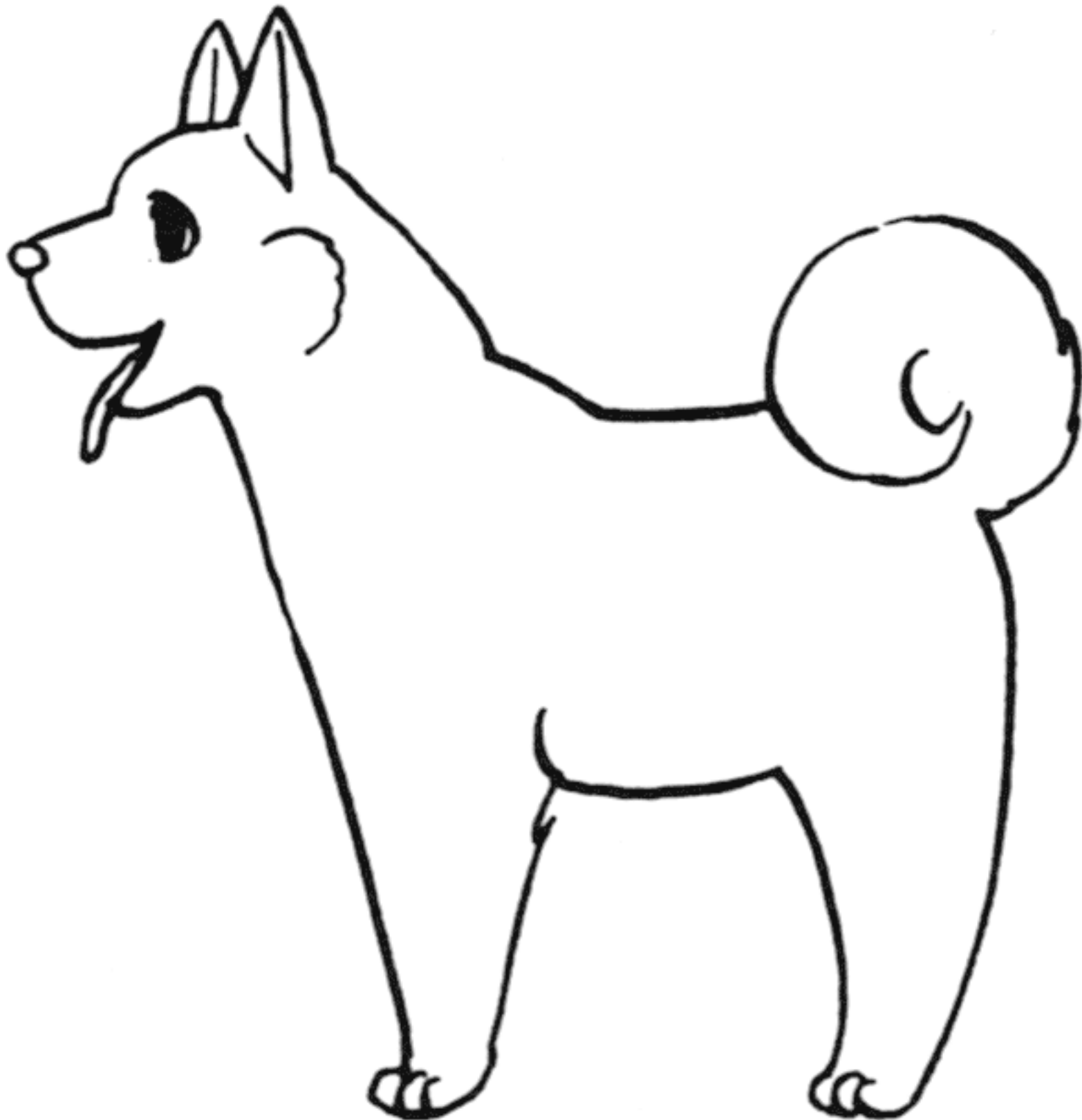
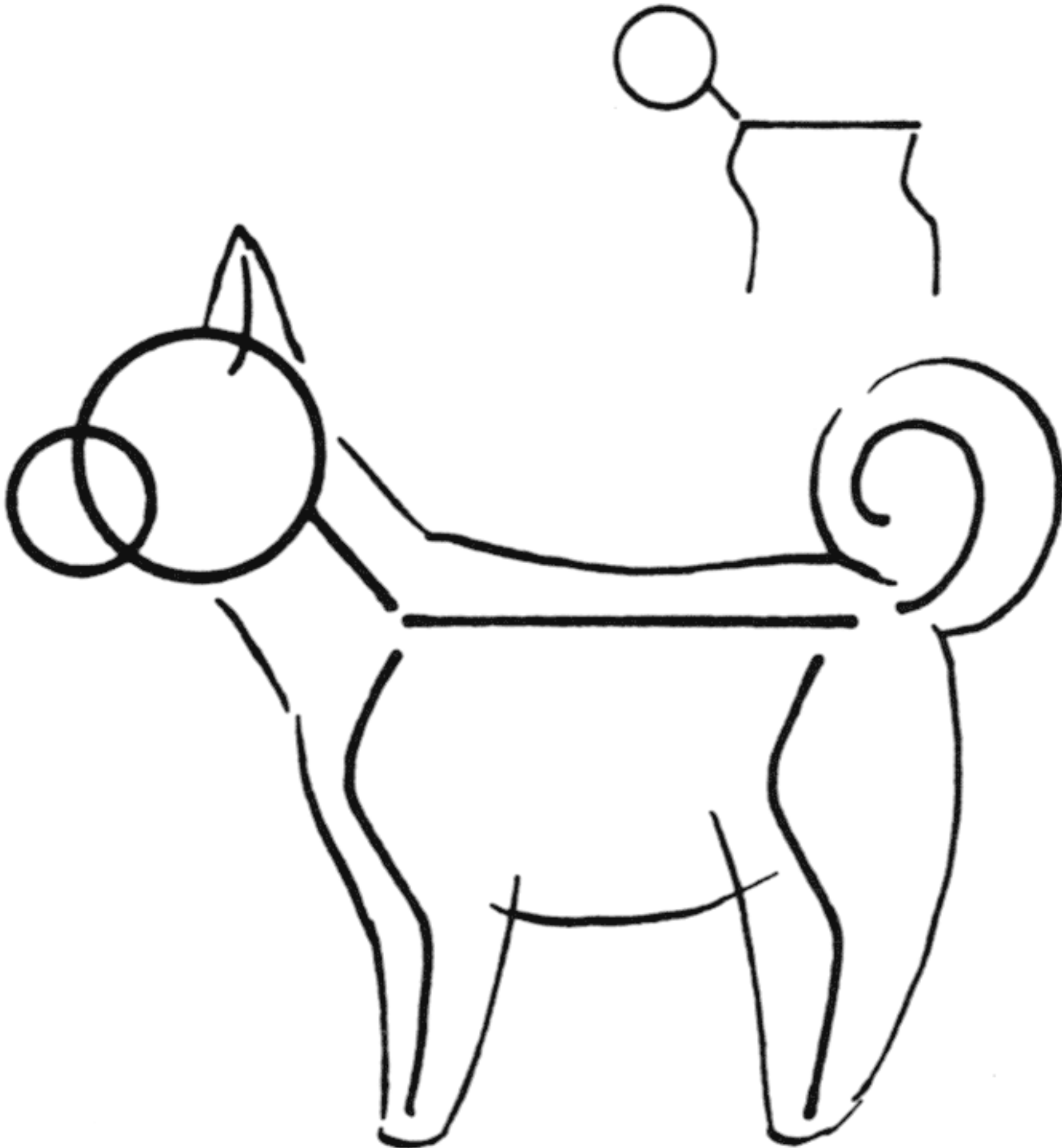
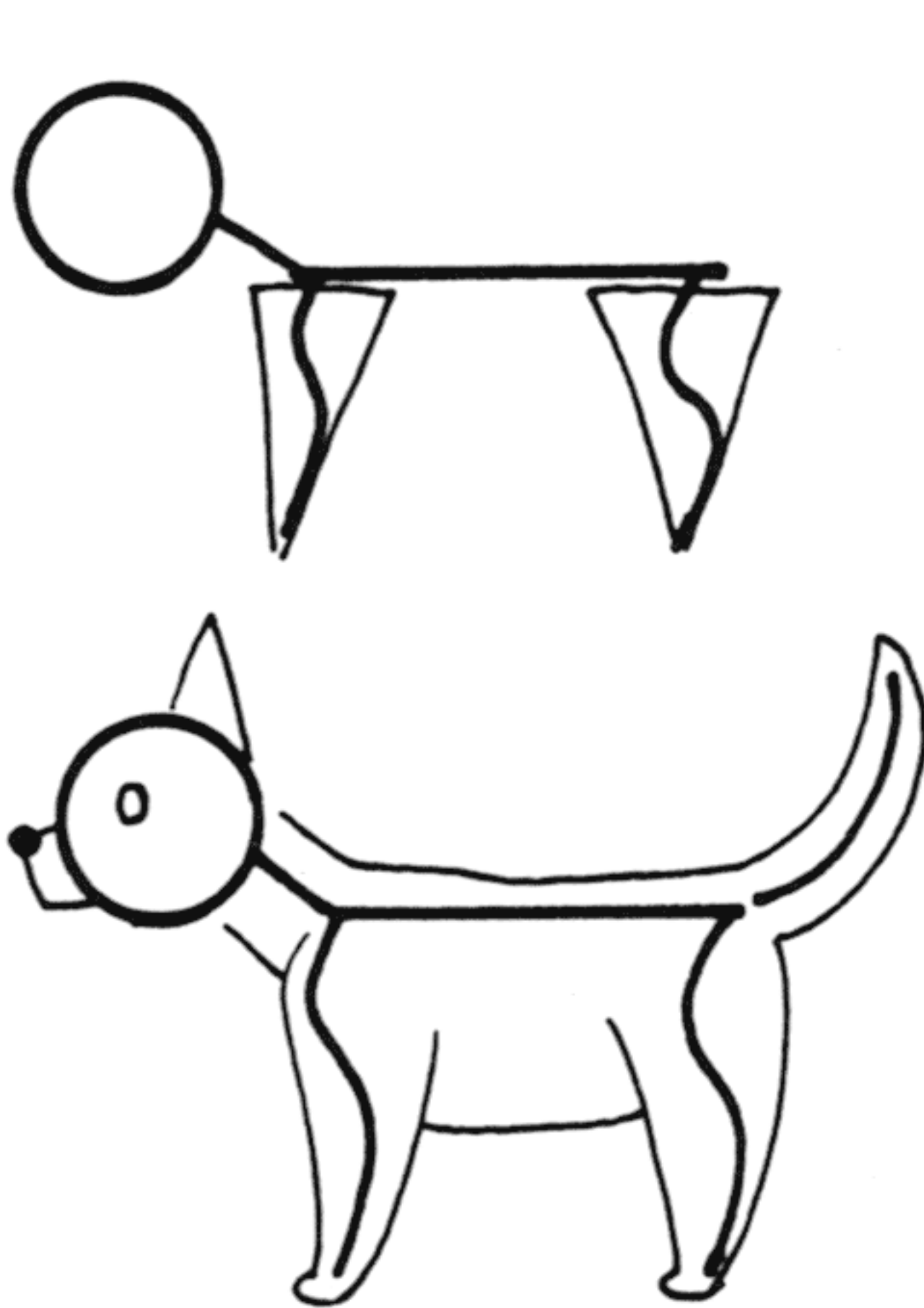
Short legged animal

Long legged animal



## S-Curves and Triangles

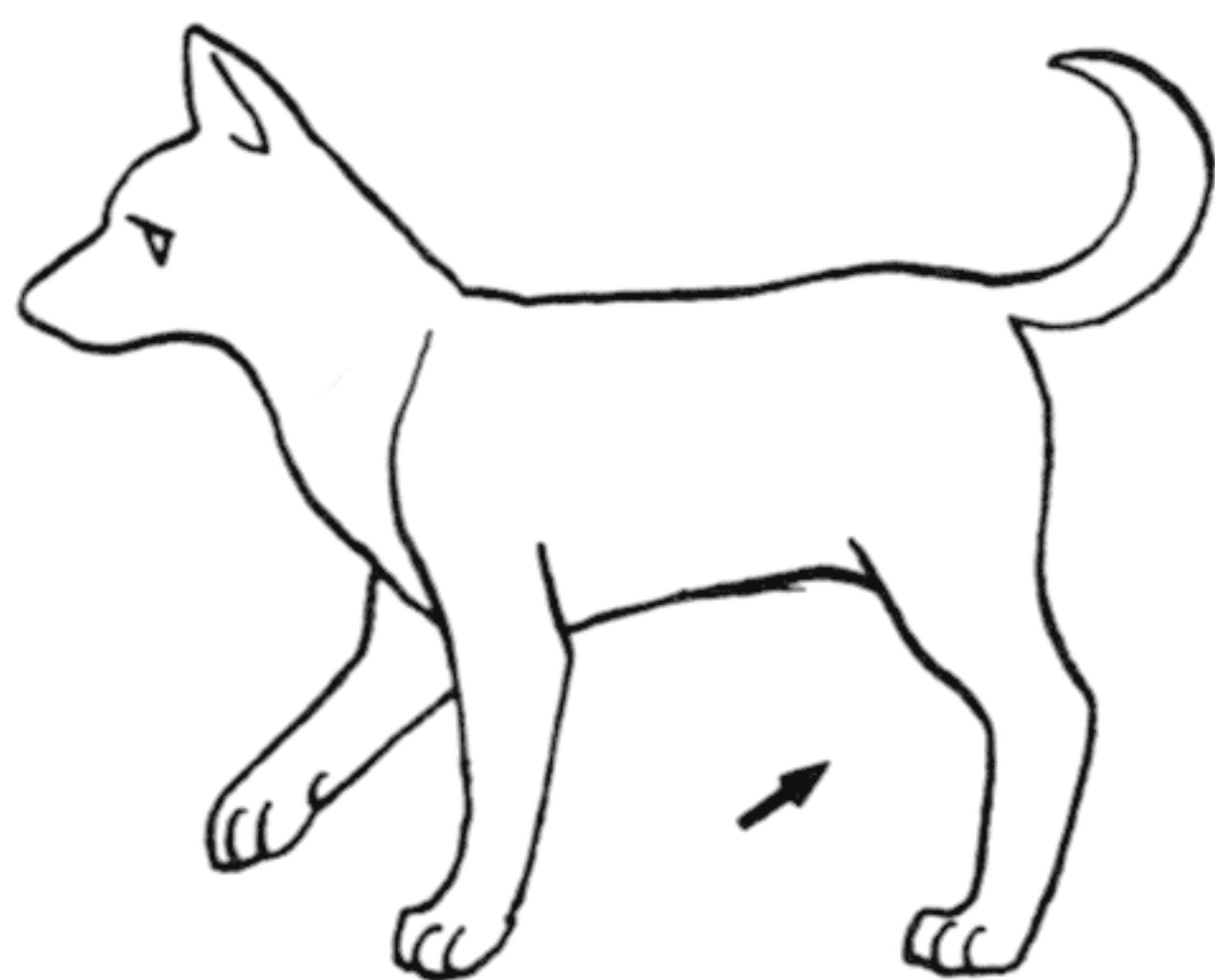
If you run into difficulties sketching the legs, draw a triangle with an S inside. This should make things easier.



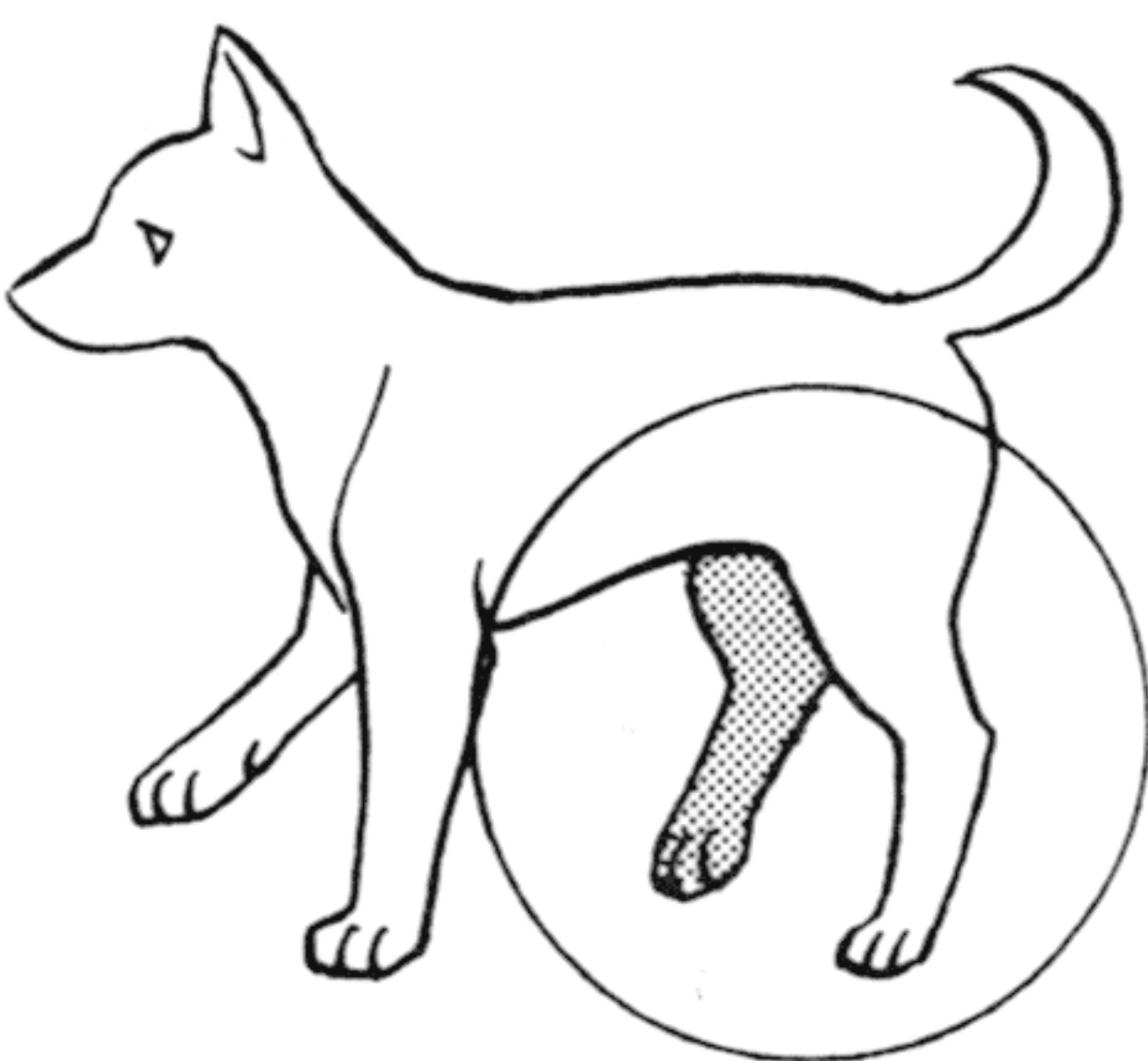
Triangles help reproduce the feel of fluffy puppy legs.



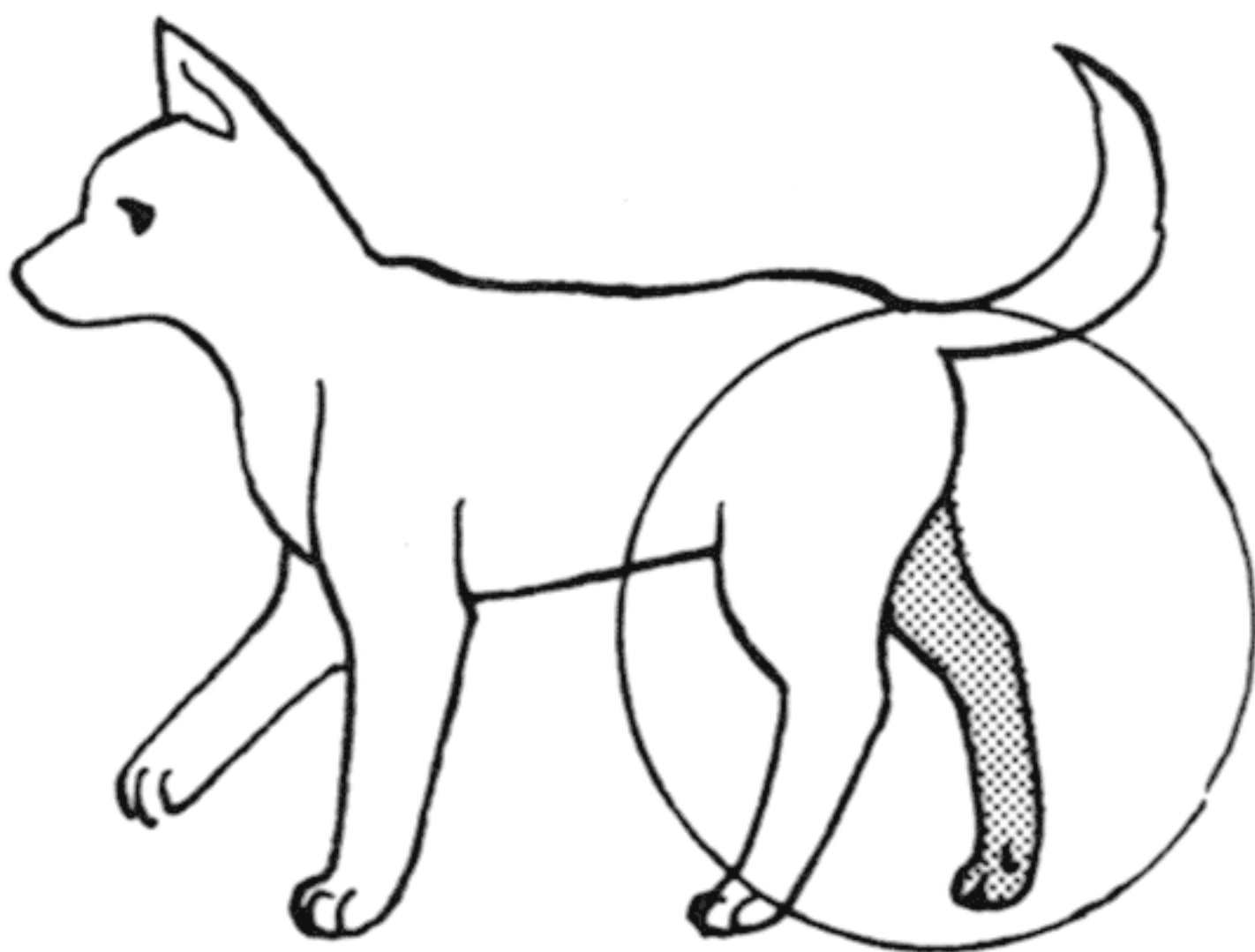
Taking a Step



Problem: Where does the right hind leg go?

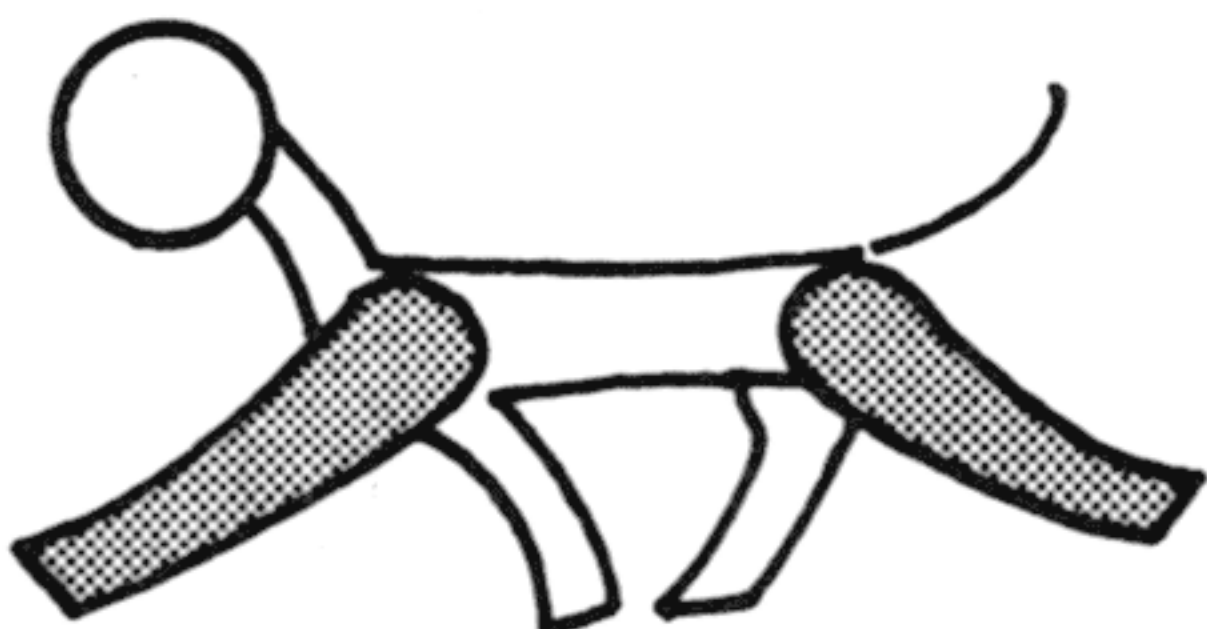
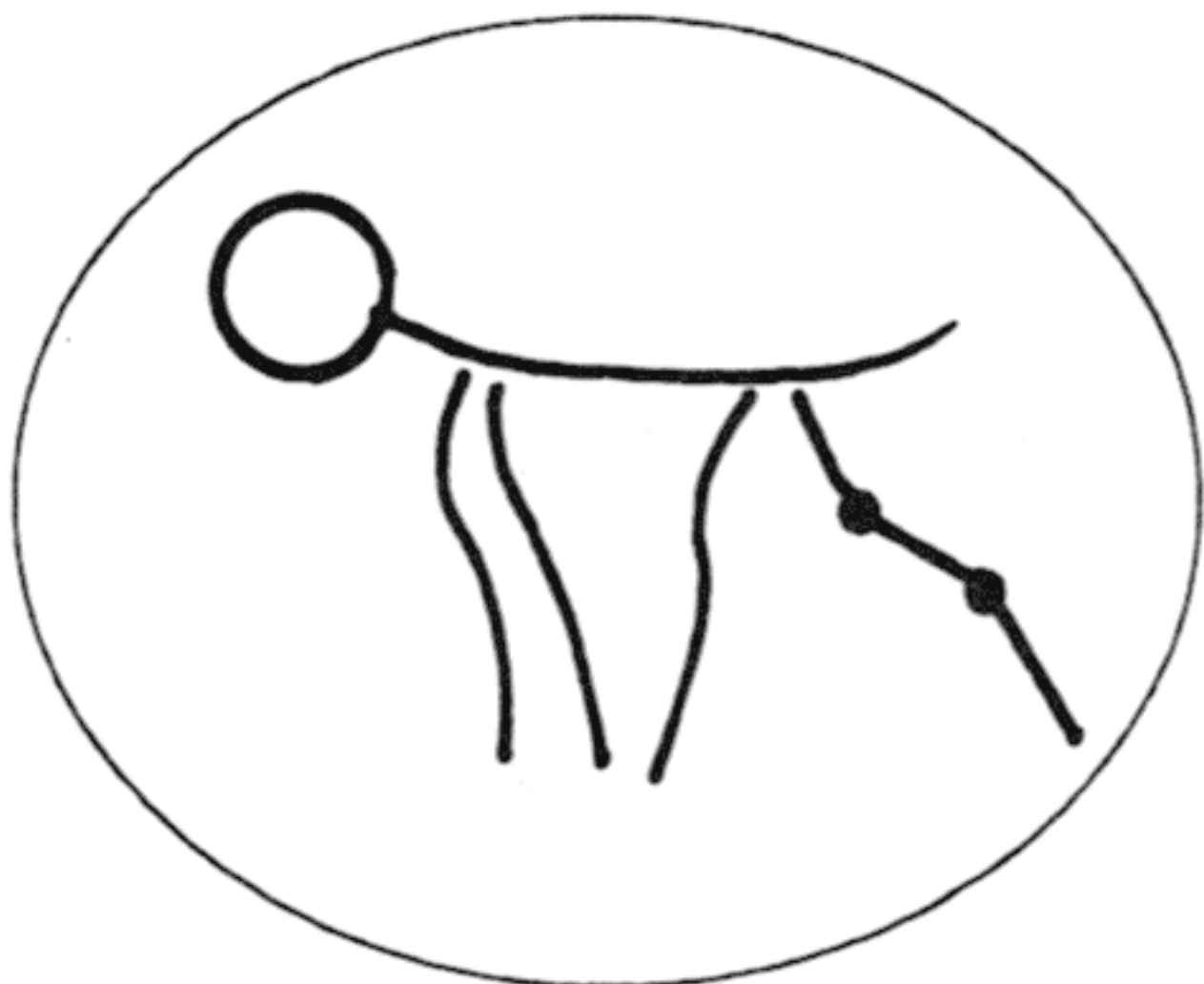
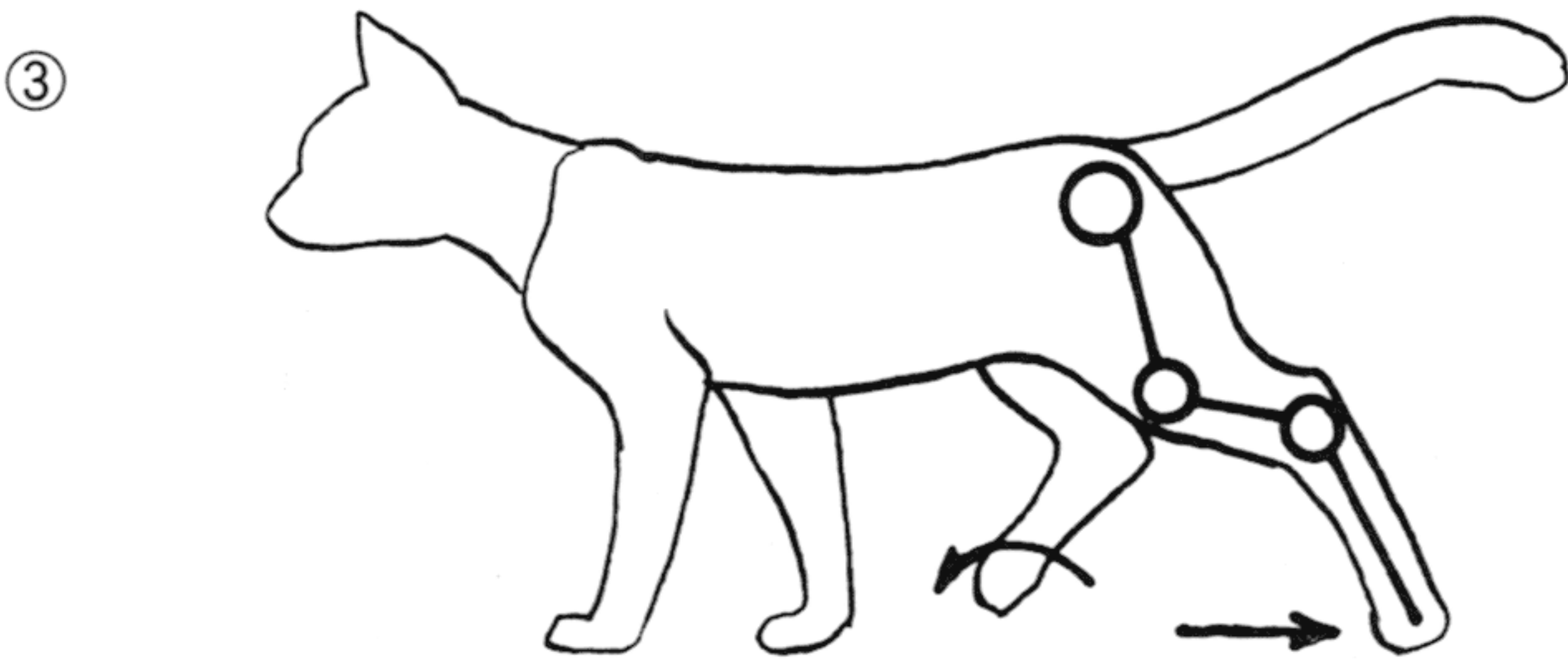
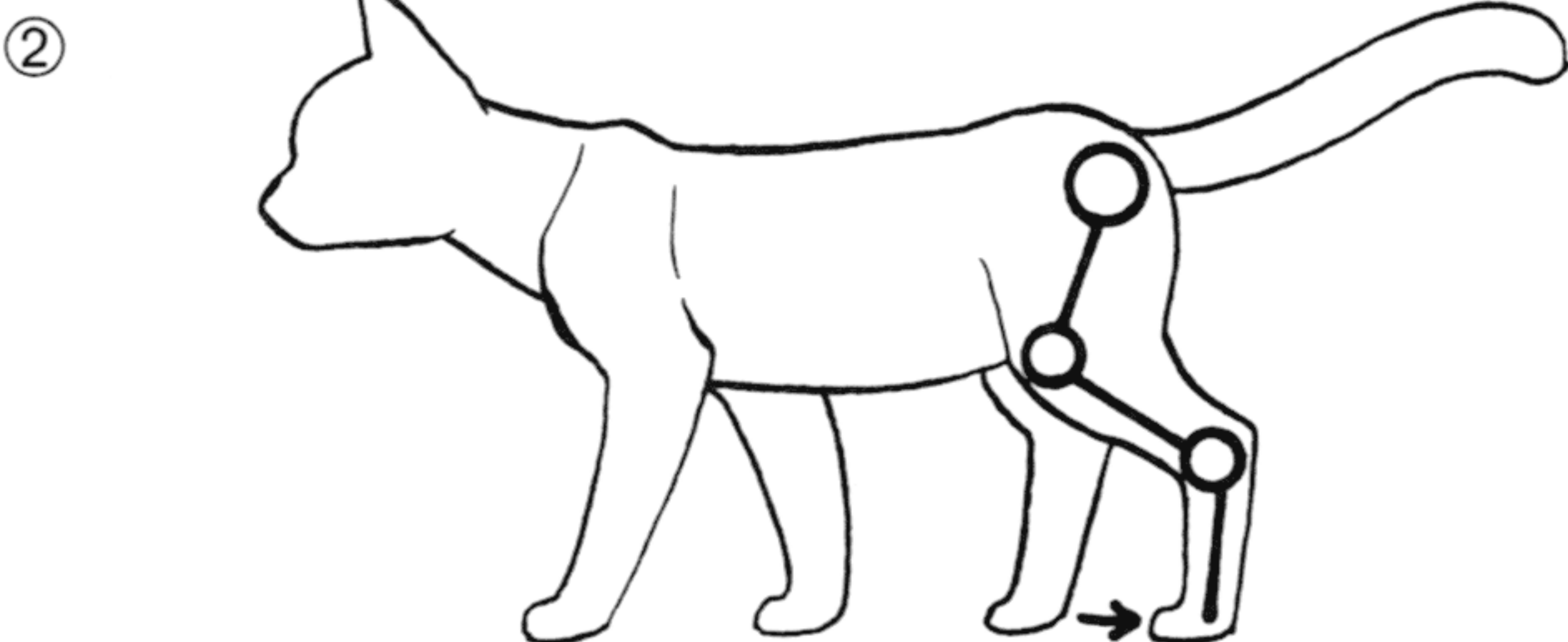
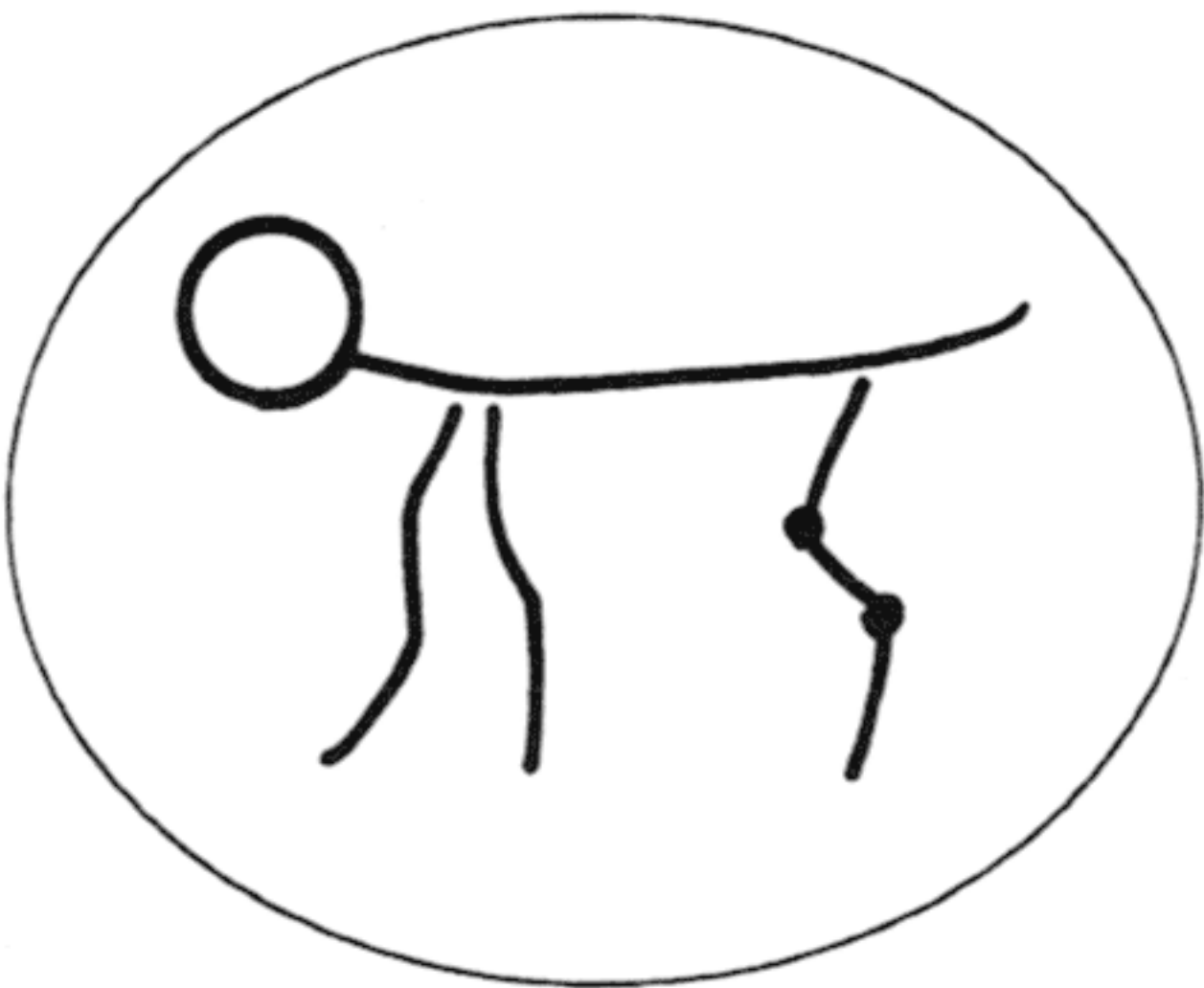
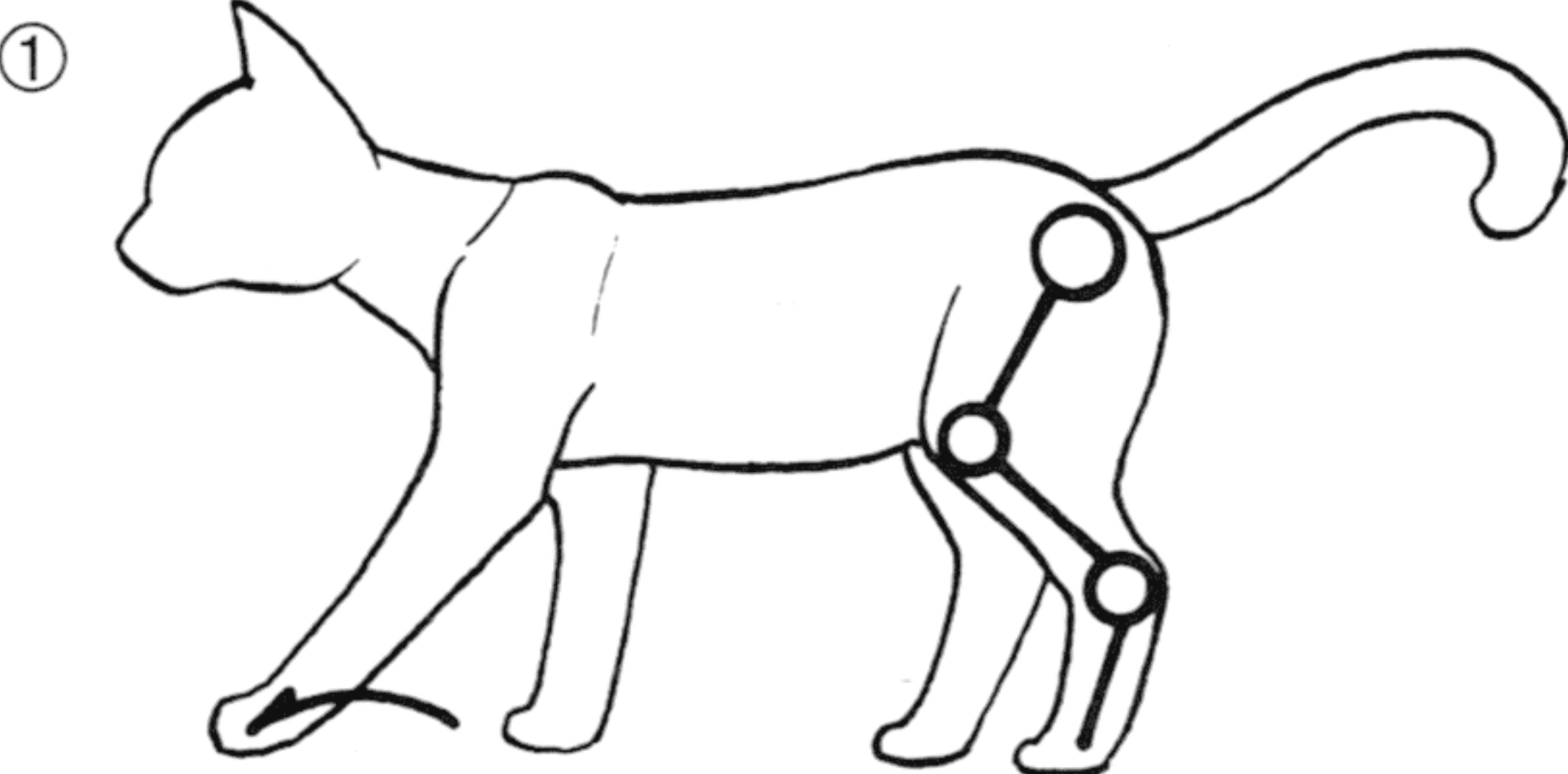


A) Figure with the right hind leg forward.

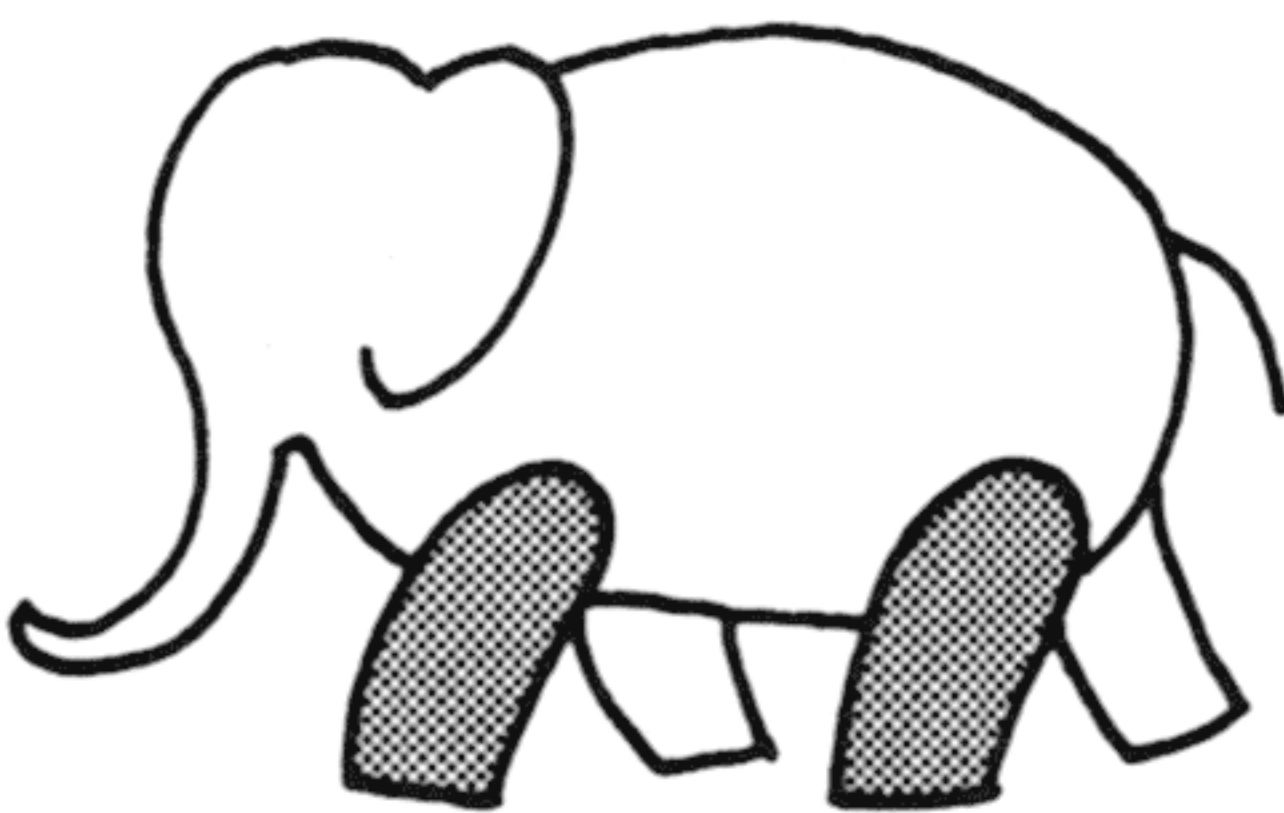


B) Figure with the right hind leg back.

Stages in Leg Movement Try to memorize how the S-curve of the hind legs change.



The legs of dogs, cats, and horses take on a wide triangular shape.

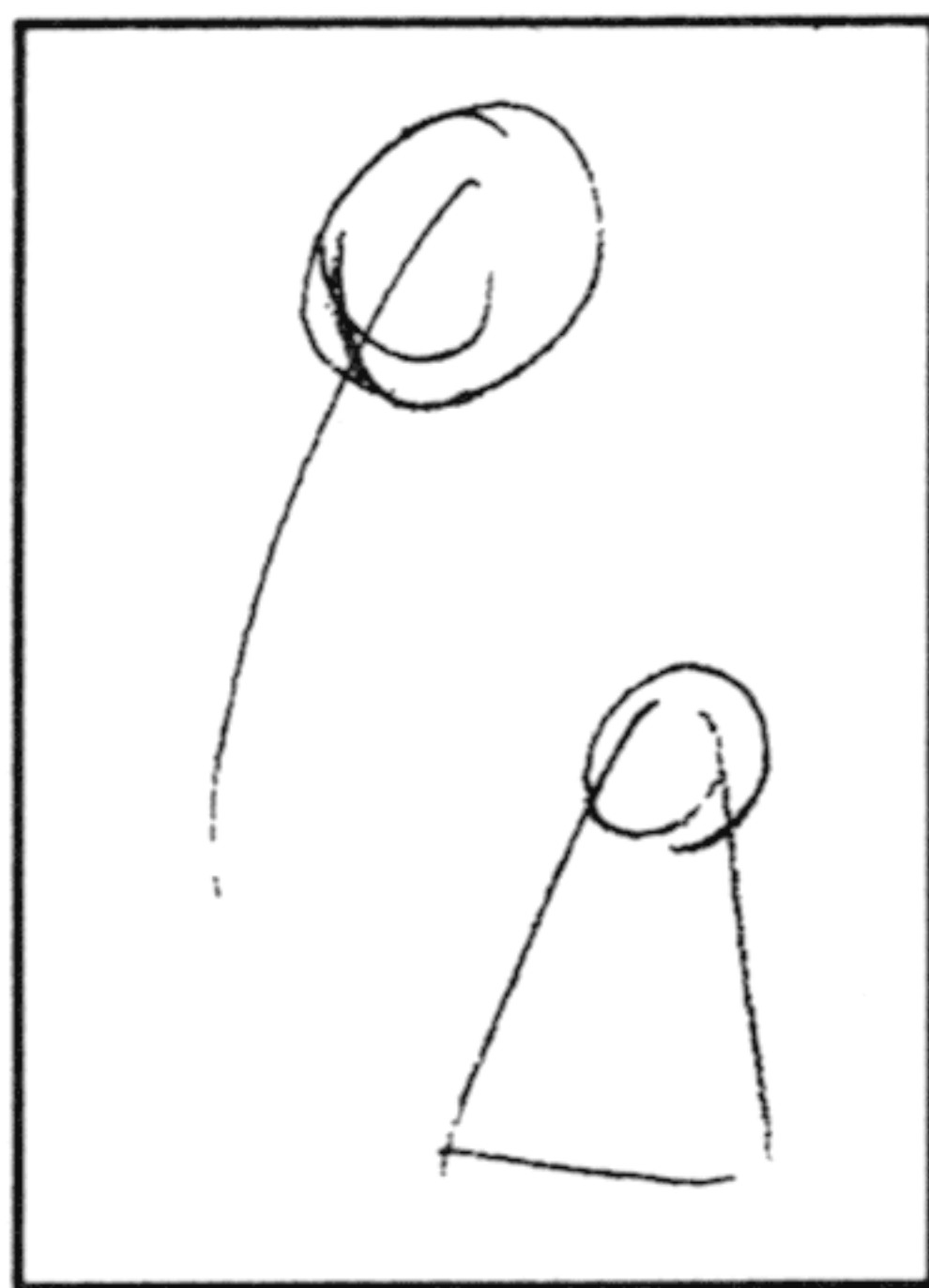


The legs of elephants and camels do not form a wide triangle.

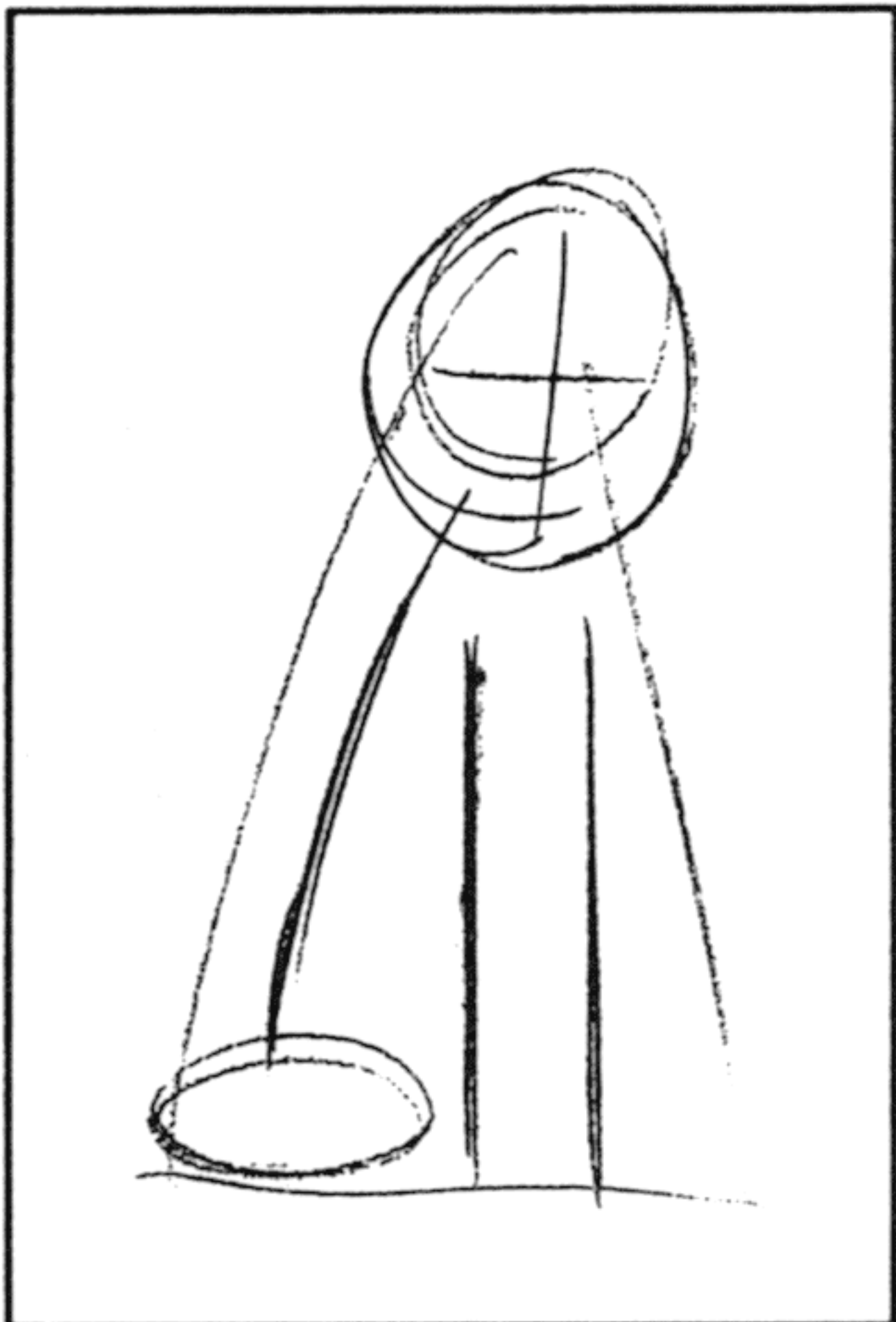


# Hind Legs in a Seated Position

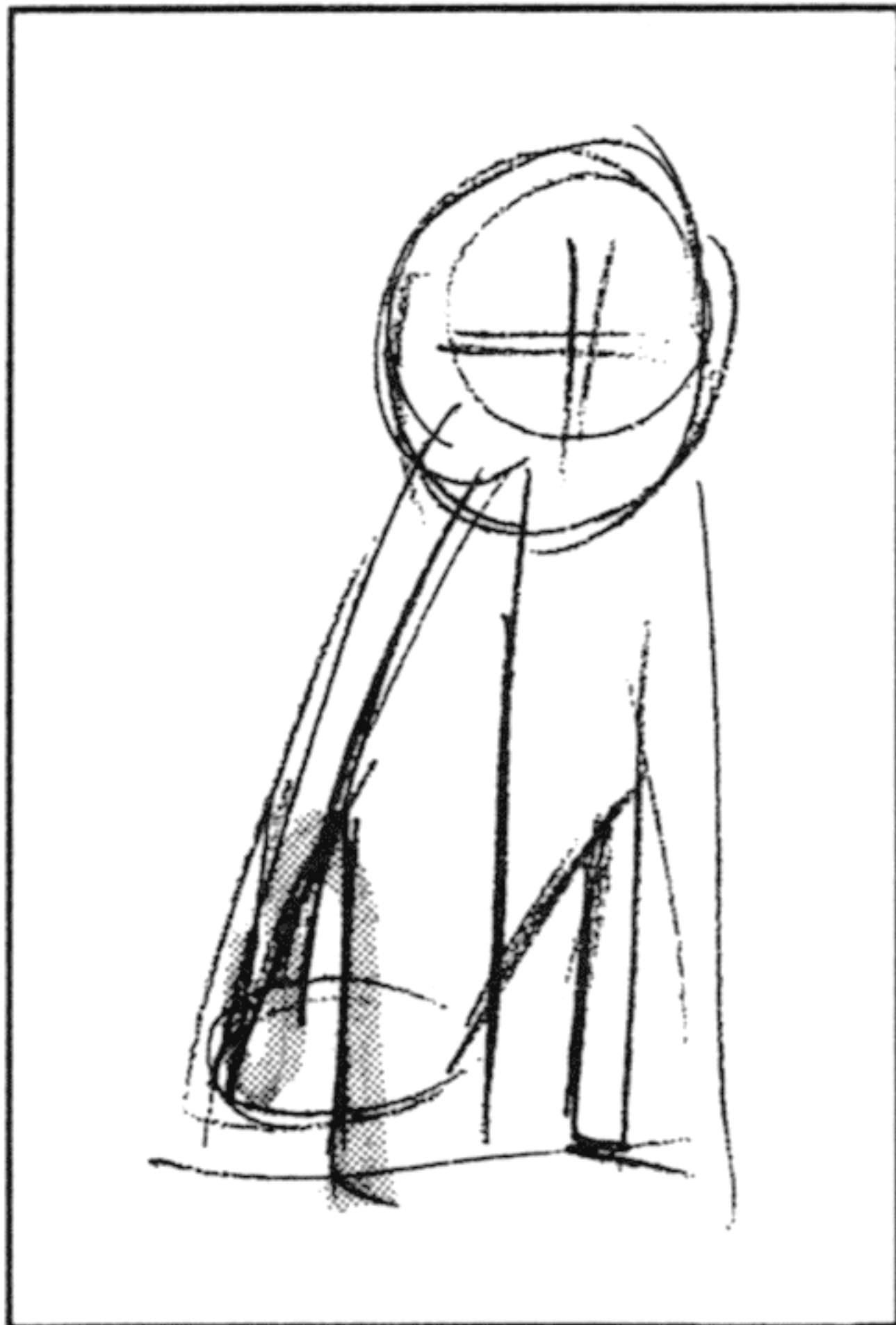
he key is to determine the knees' locations.



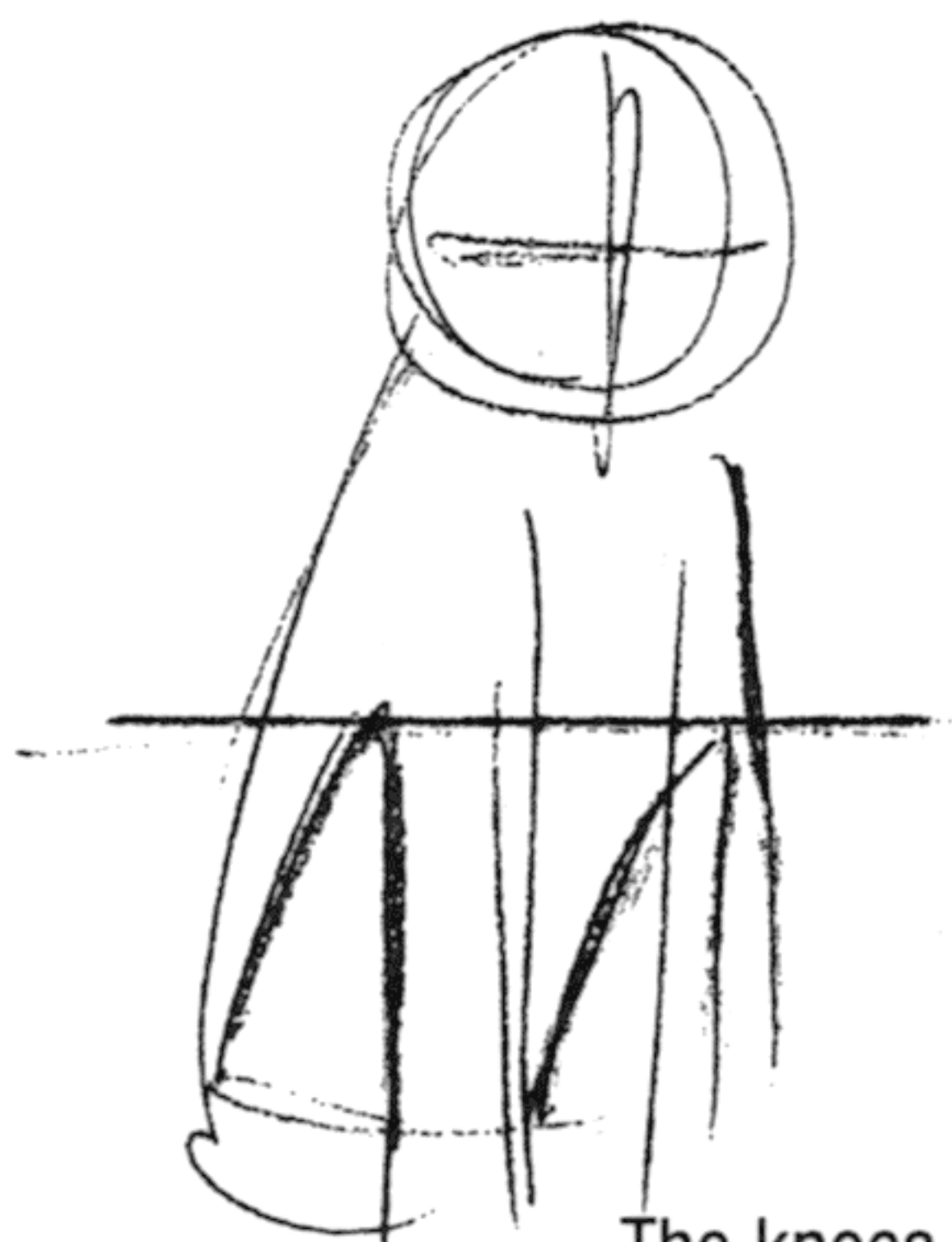
① Sketch a diagram of the overall shape.



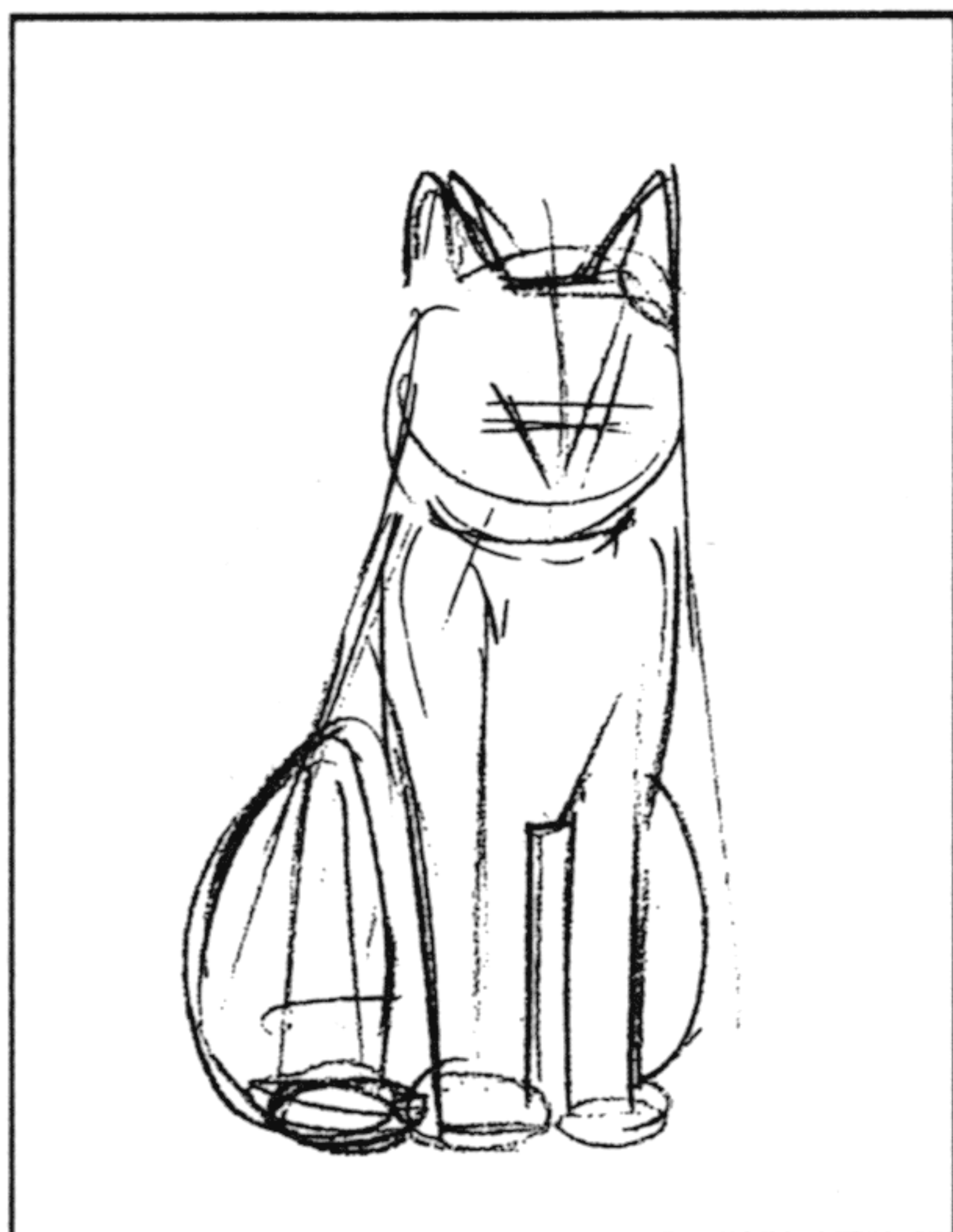
② Sketch a layout of the front legs and pelvis.



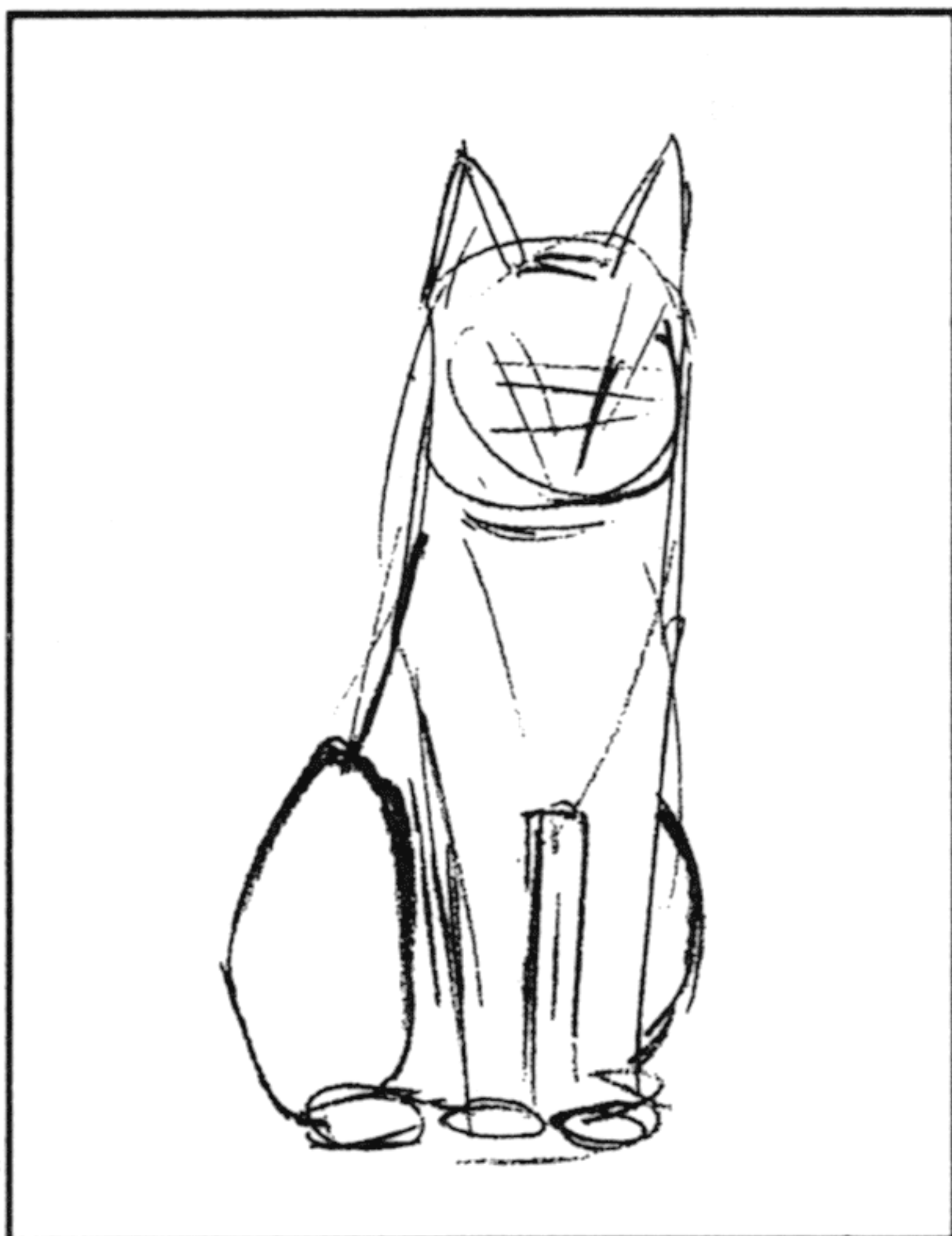
③ When sketching the hind legs, be conscious of the legs' S-curve, which will determine the knees' location, despite that this curve is not evident in this position.



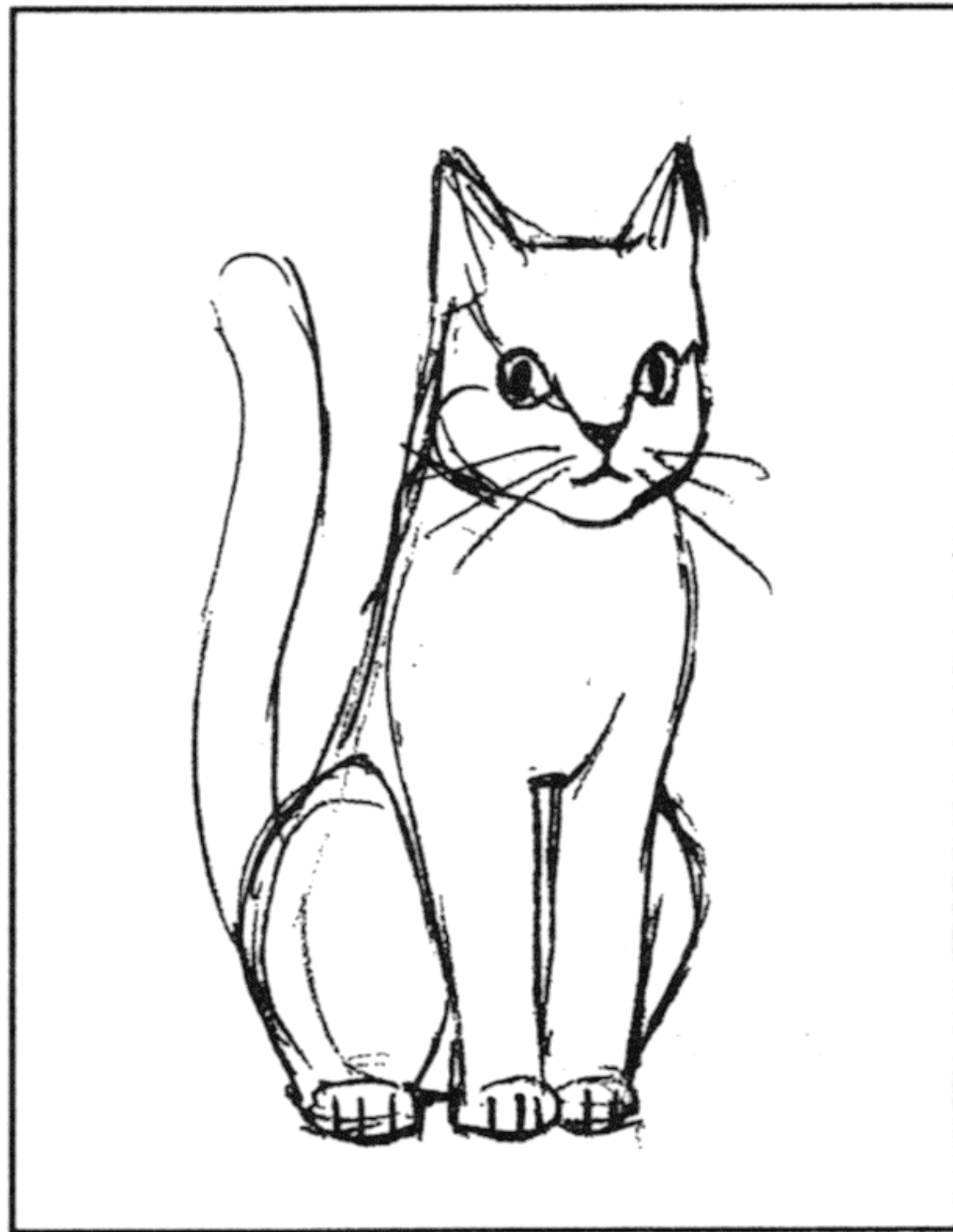
The knees are located midway along the body.



④ Roughly sketch in the outer contours. Make the rear (the thighs) round and plump.

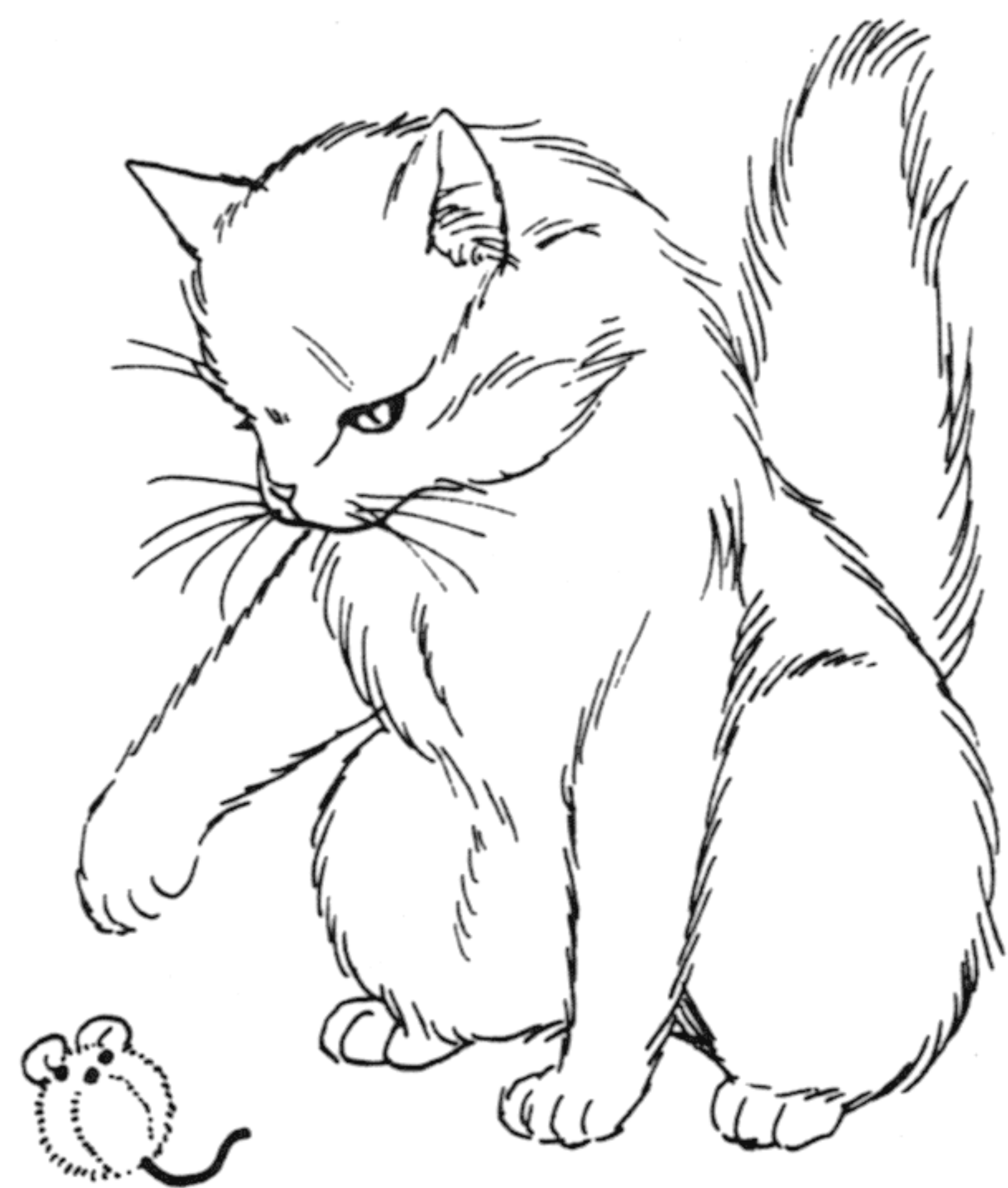


⑤ Only draw precisely placed lines at the knees.



⑥ Draw the head and other body parts to finish.

**Finishing Touches**—Practical Application: Use hatching/diagonal lines and tone around the knees.





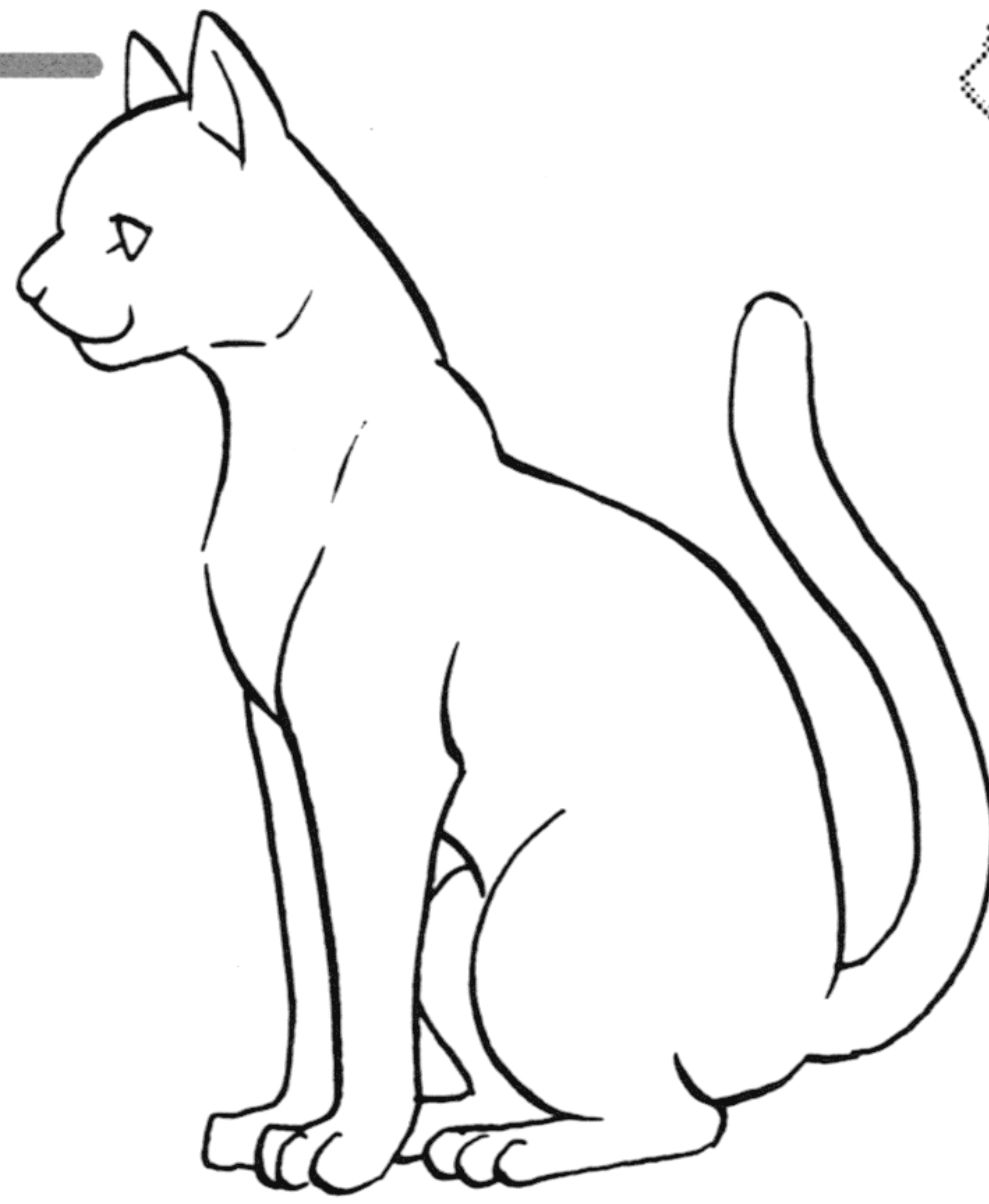
# Seated Poses

When drawing an animal seated, be sure to round the back.

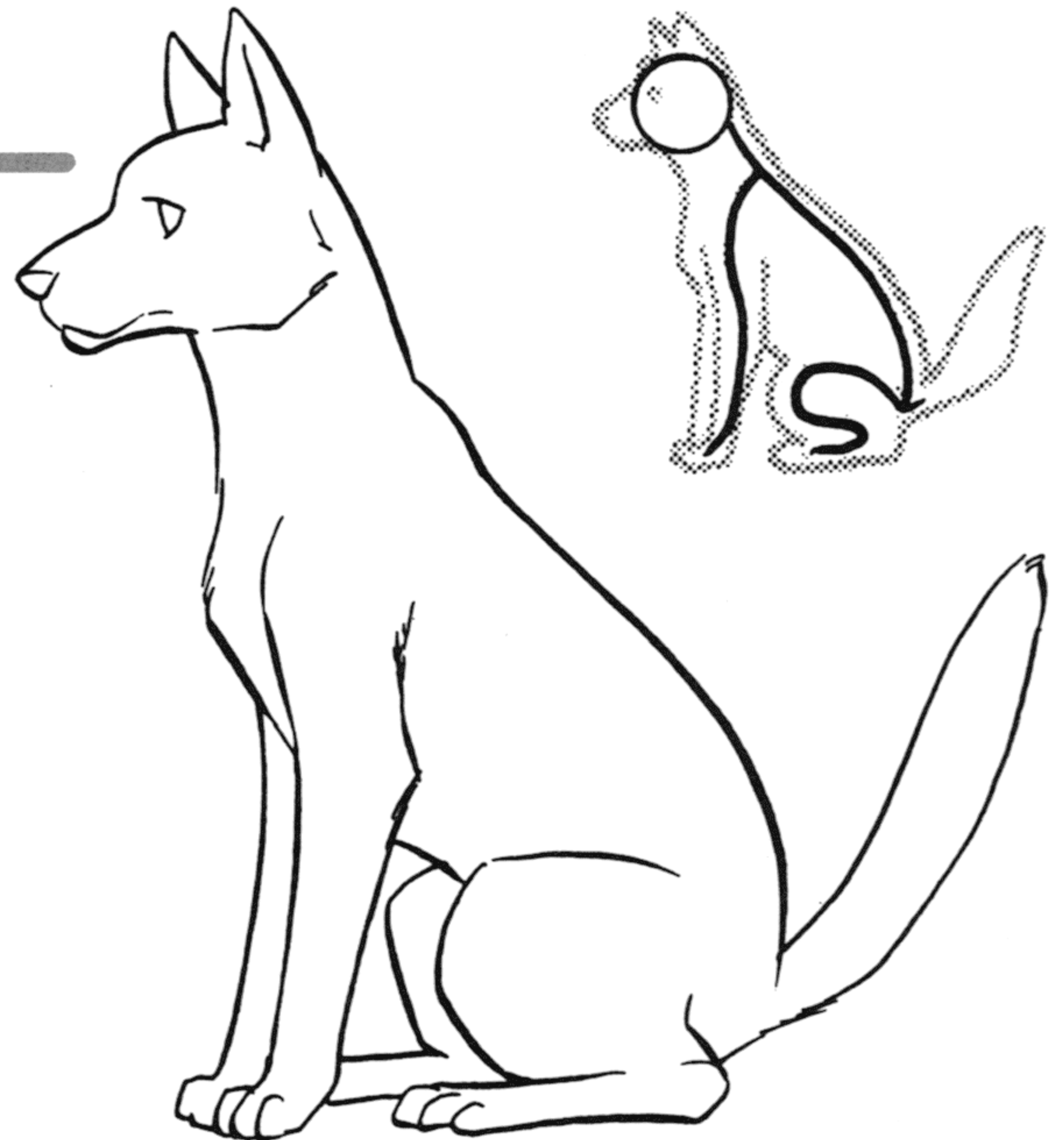
## Drawing Stages



Cat



Dog



Hamster



The hamster's most common position is a seated pose.



If you try to seat a hamster the way a cat or dog would sit, it will end up standing.

## Assorted Animals Sitting



Hamster



Chipmunk



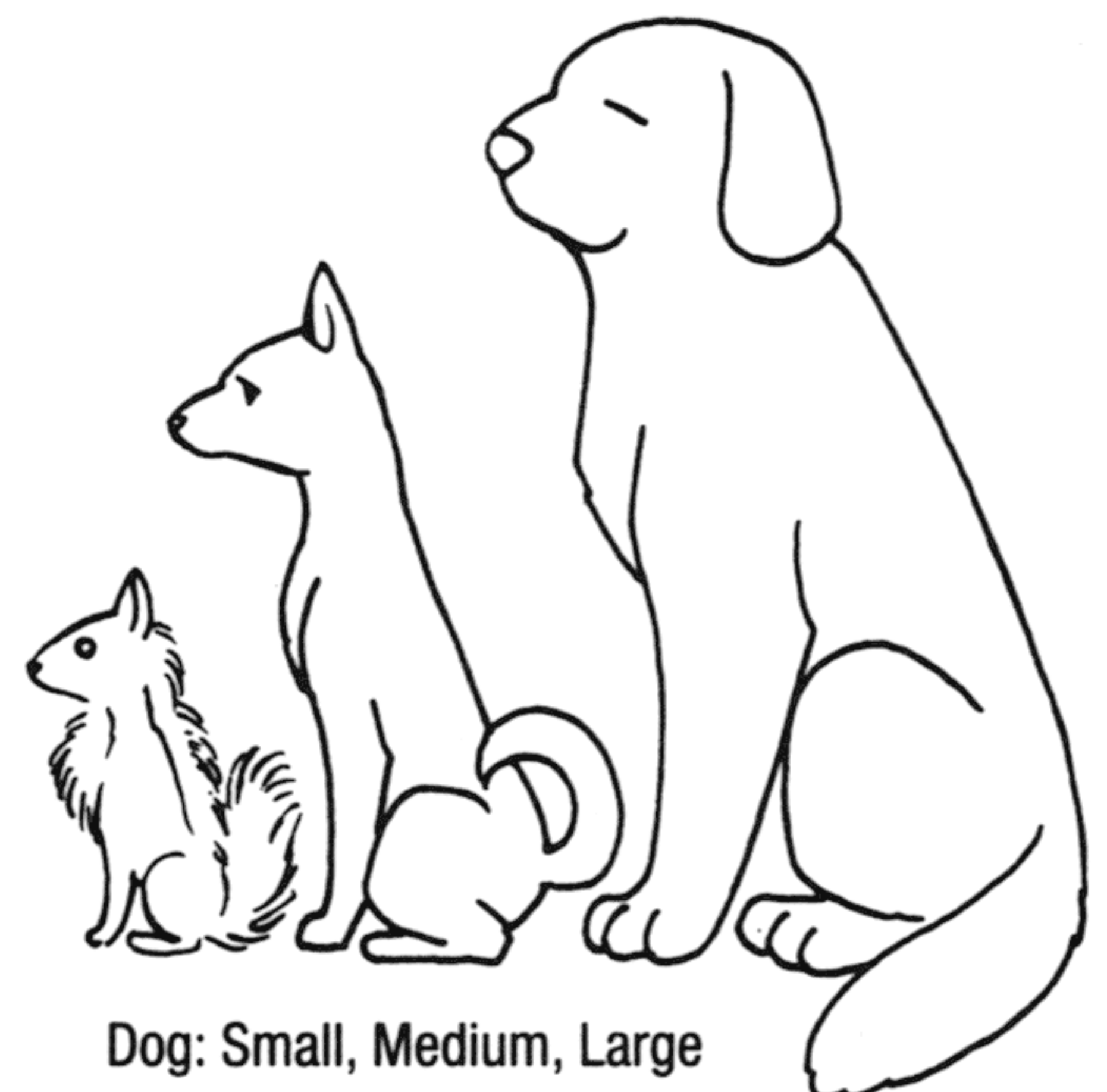
Rabbit



Meerkat



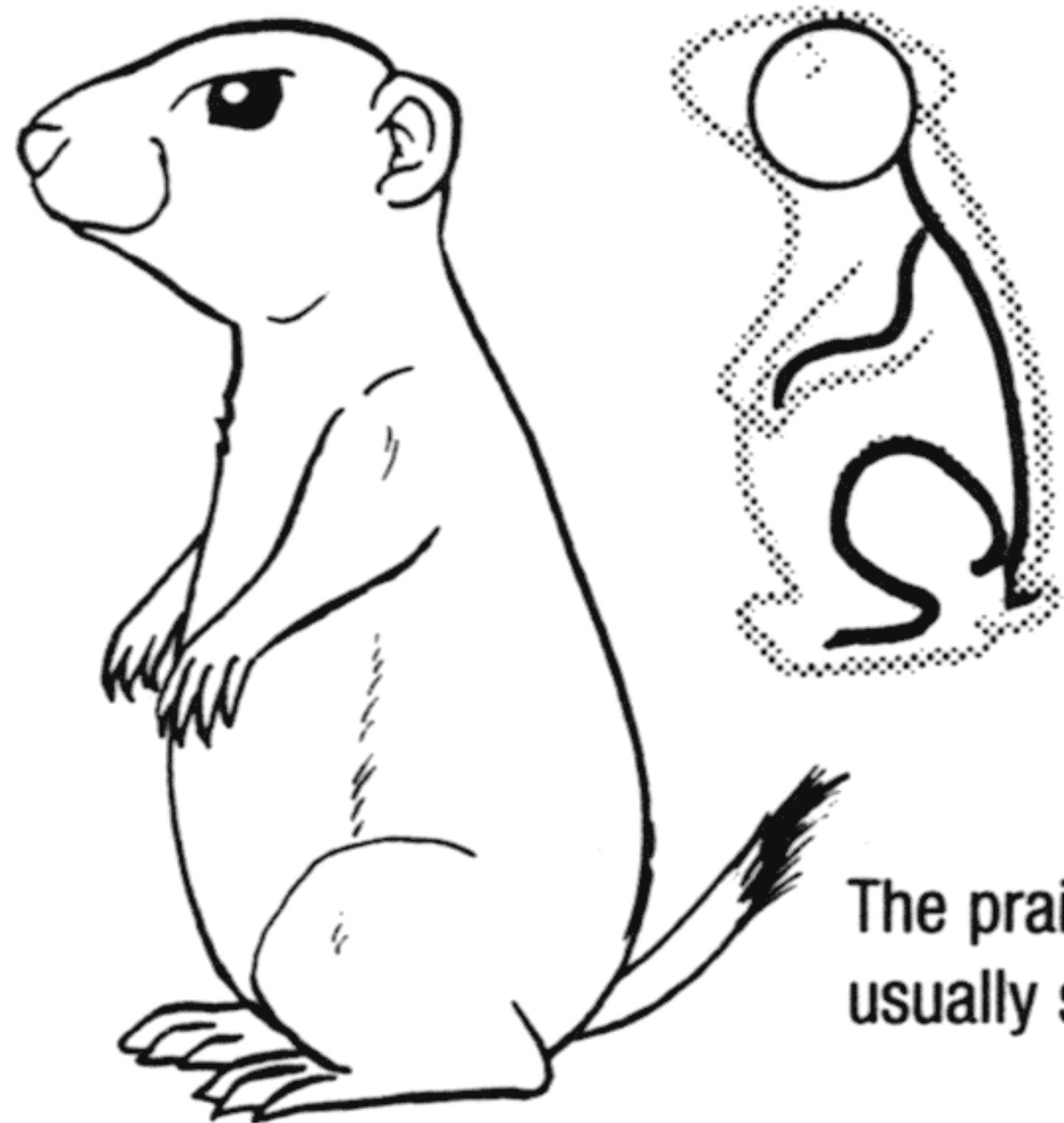
Cat



Dog: Small, Medium, Large

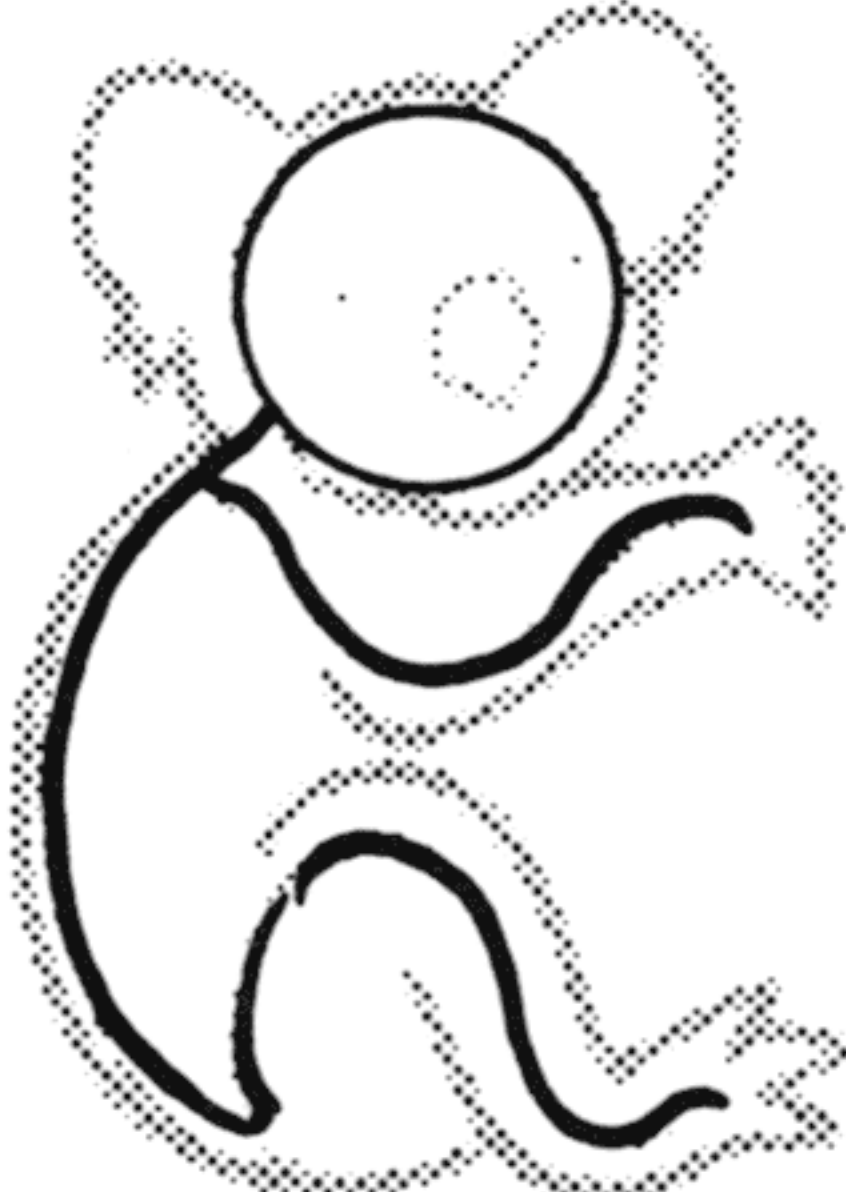


Prairie Dog



The prairie dog is usually seen sitting.

Koala



The koala's tree-hugging pose is the same as a seated position.

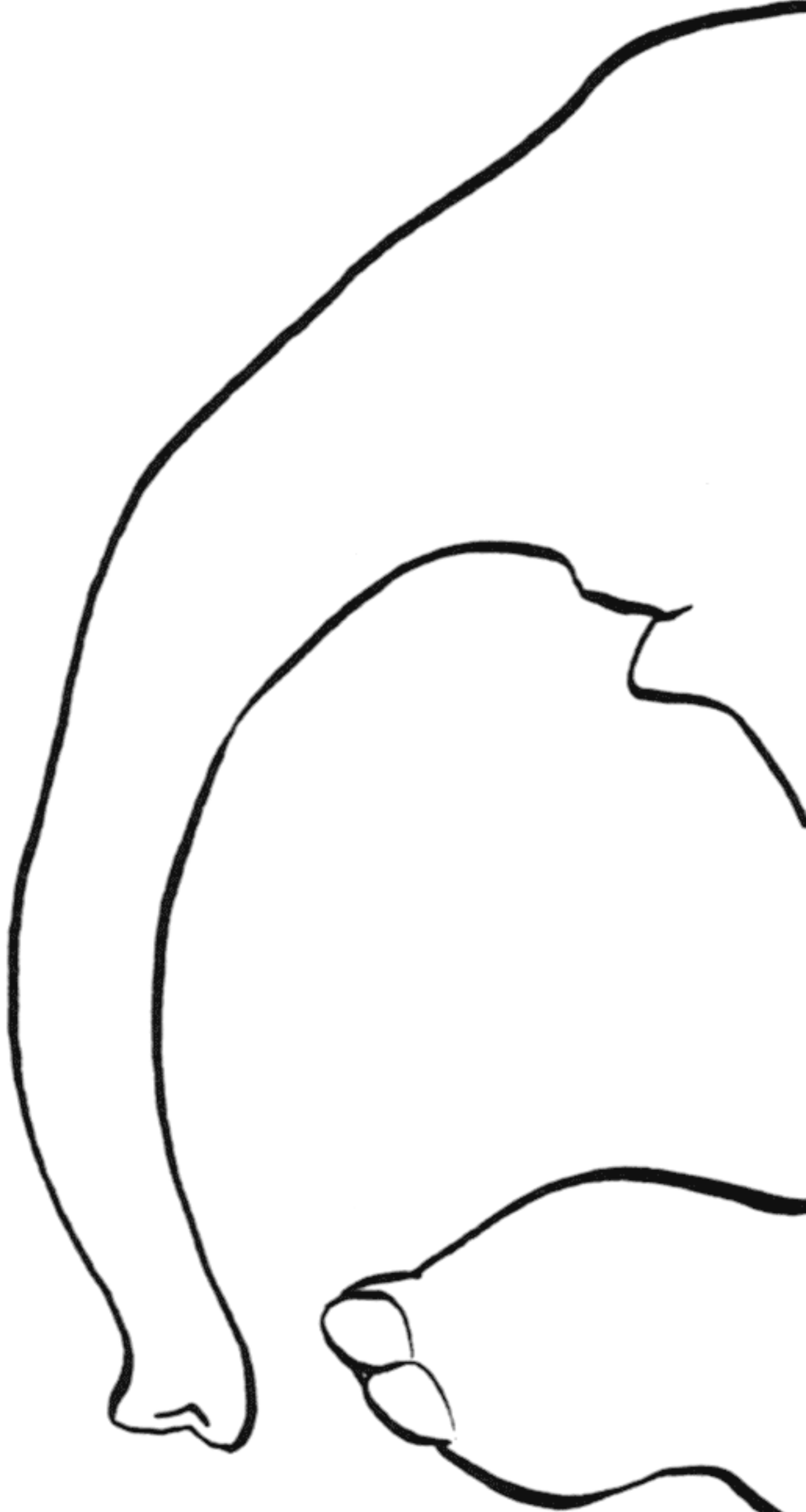
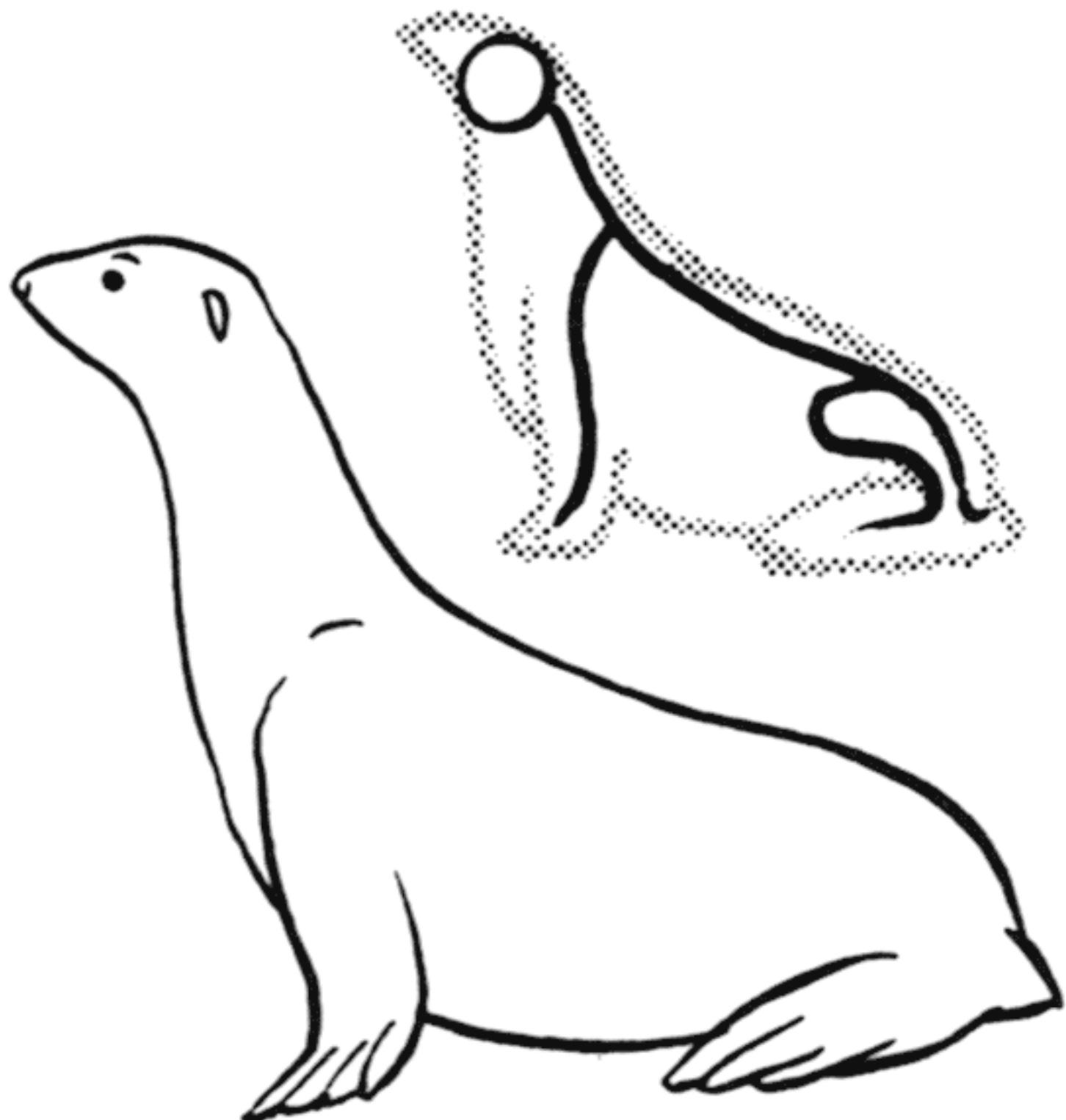


Bear

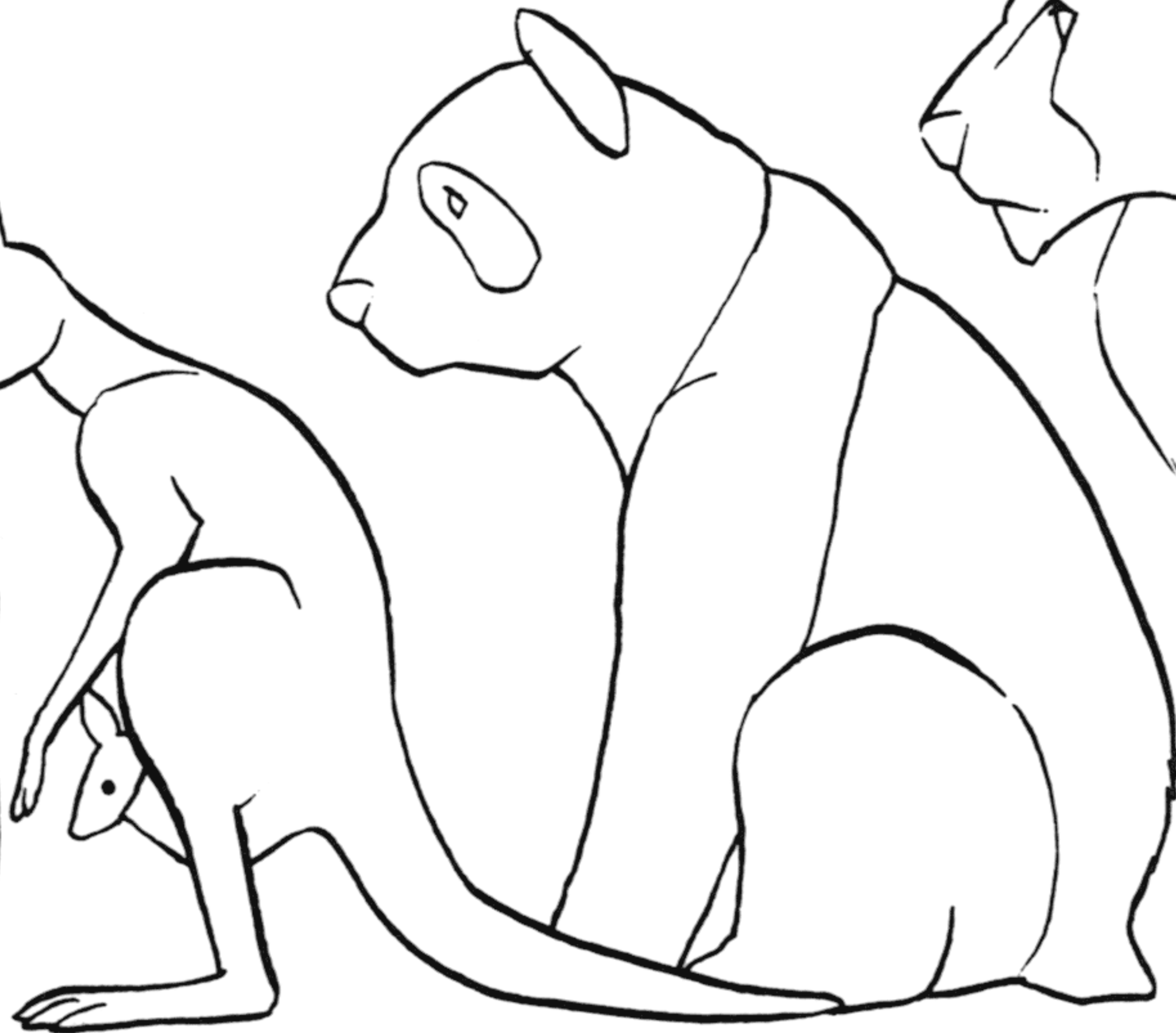


Bears typically sit with their hind legs lying straight out.

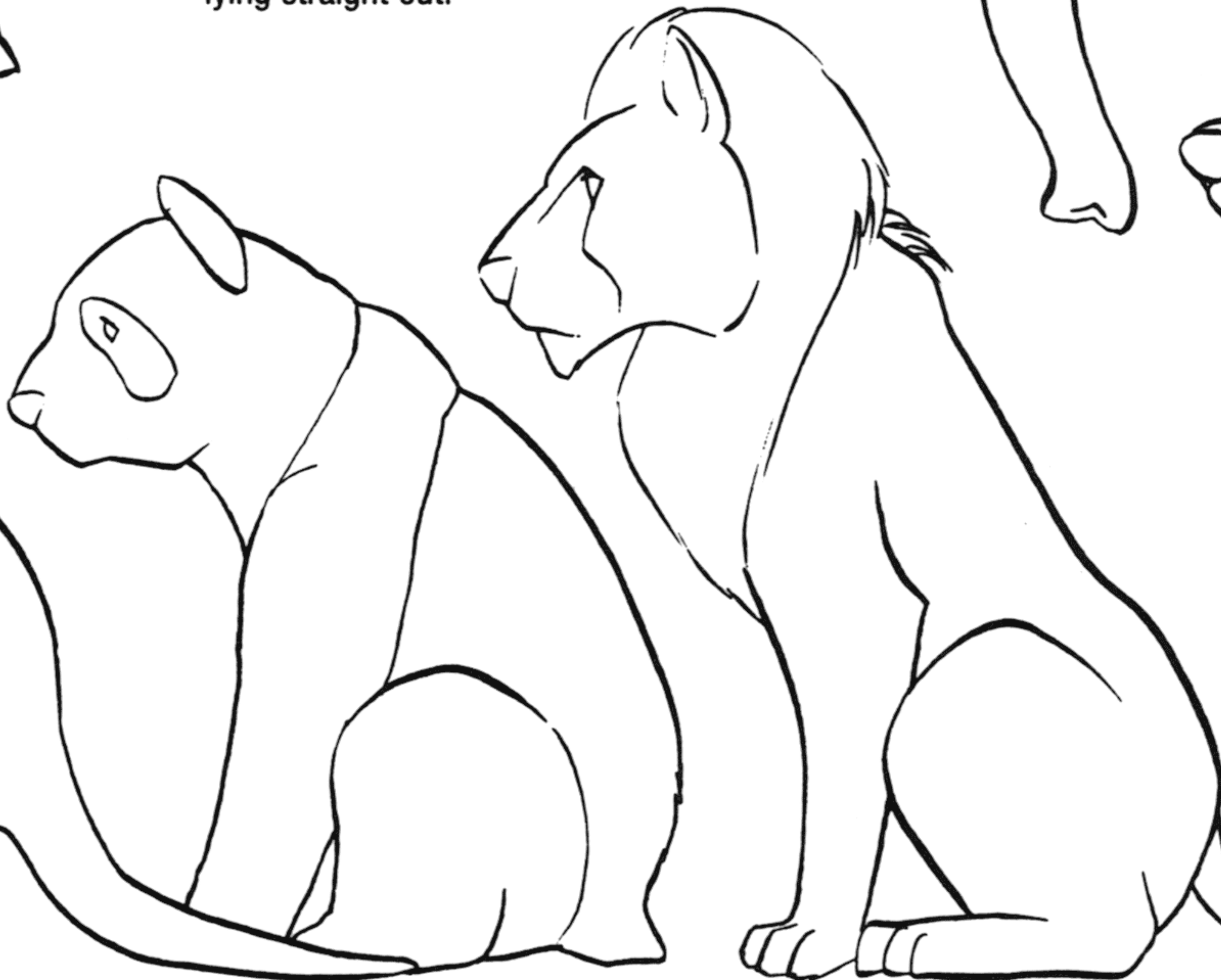
Sea Lion



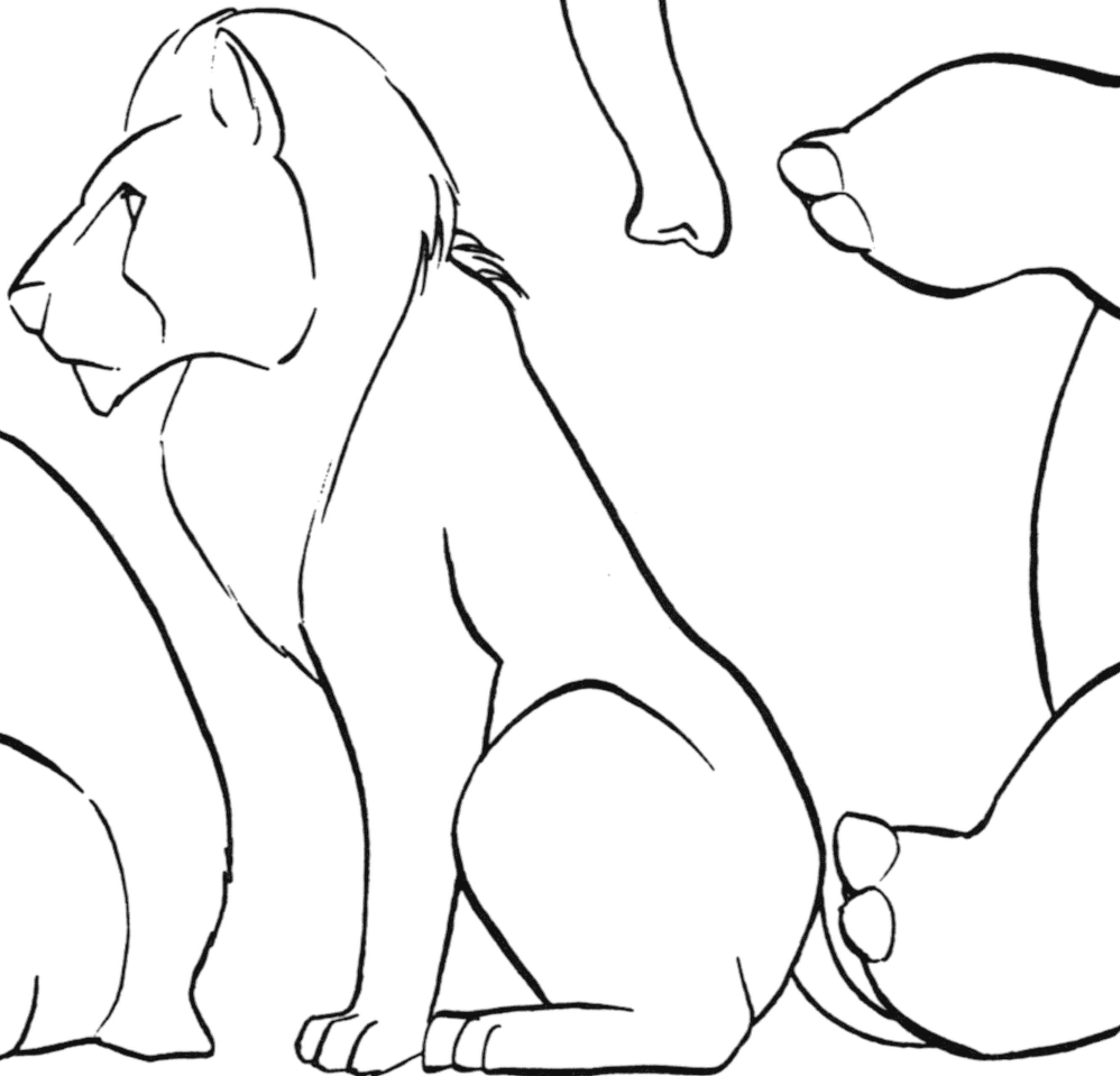
Fox



Kangaroo



Panda



Lion

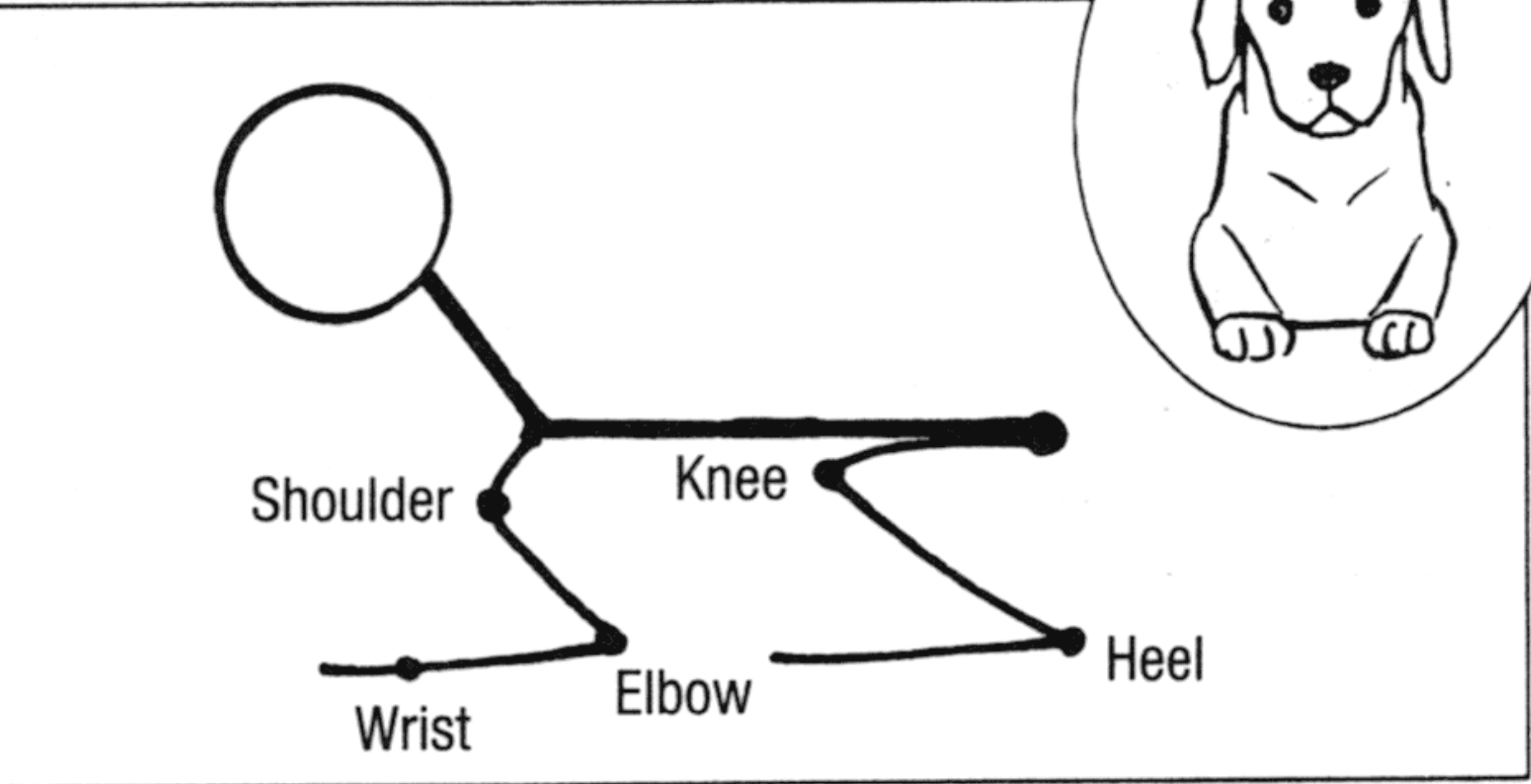
Circus Elephant



Relaxed Pose

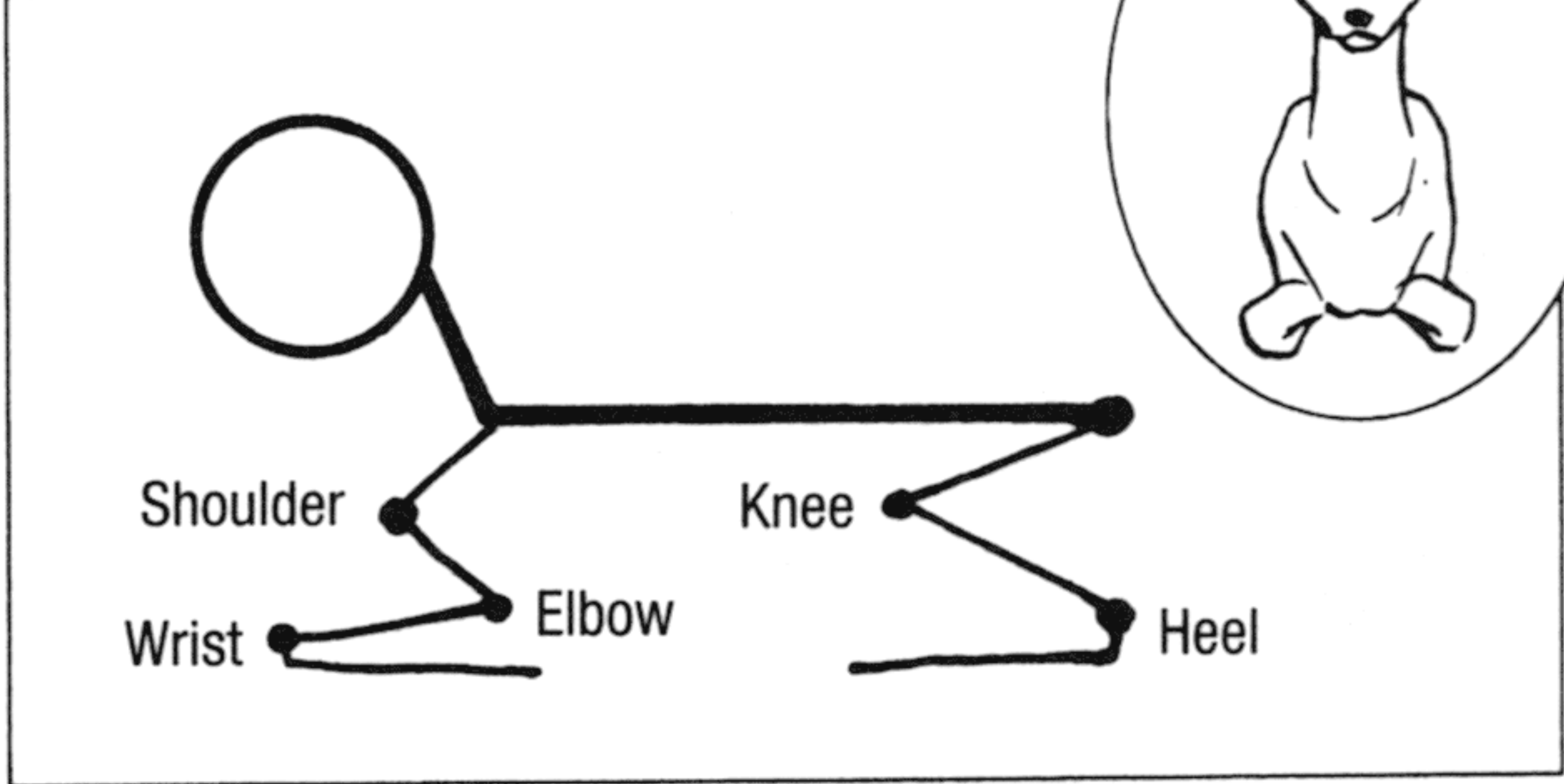
Each animal folds its front paws differently when relaxing.

Front Paws Straight Forward



Dog, cat, mouse, etc.

Front Paws Tucked Underneath

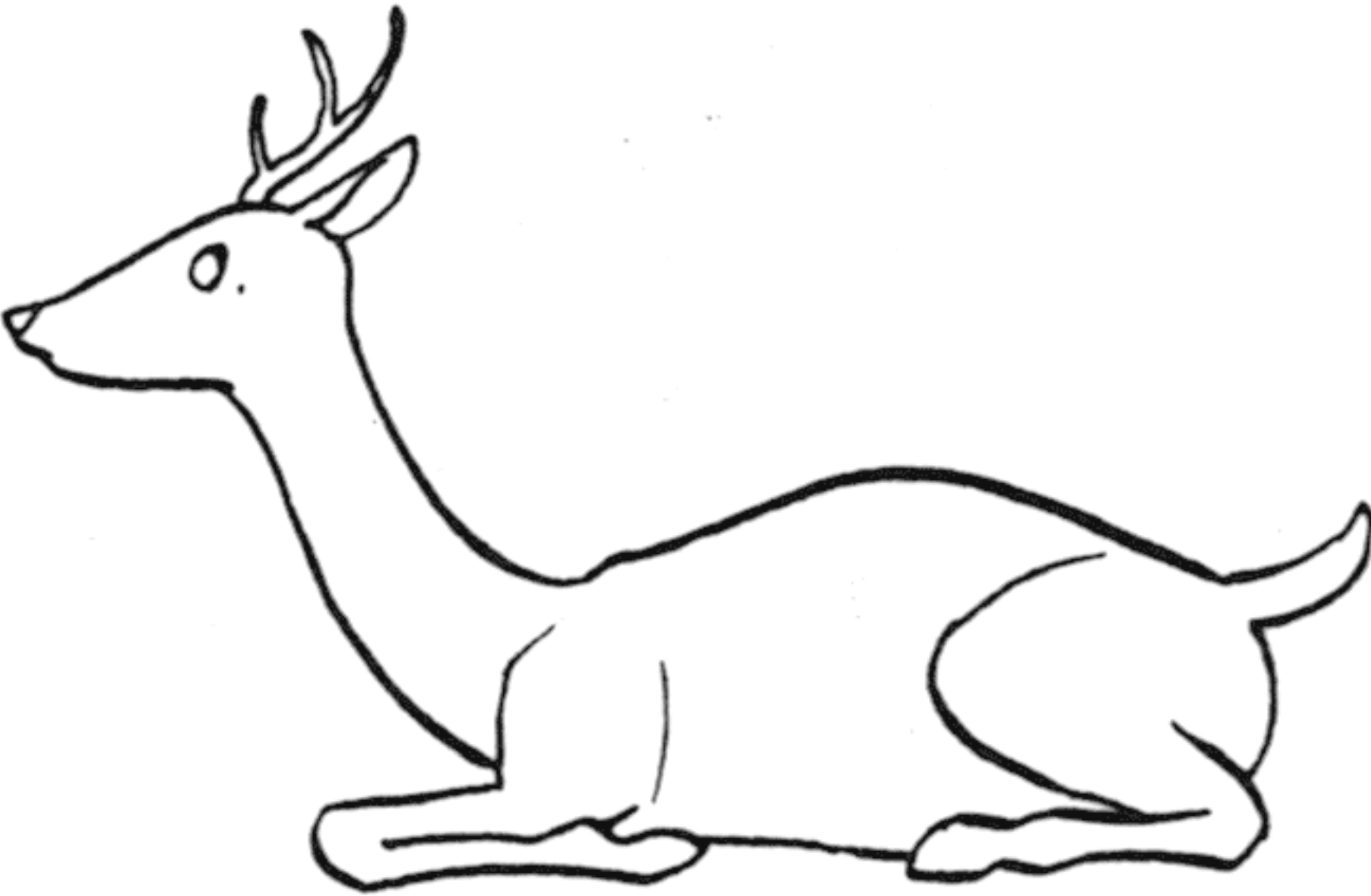


Deer, horse, and other hoofed animals

Dog



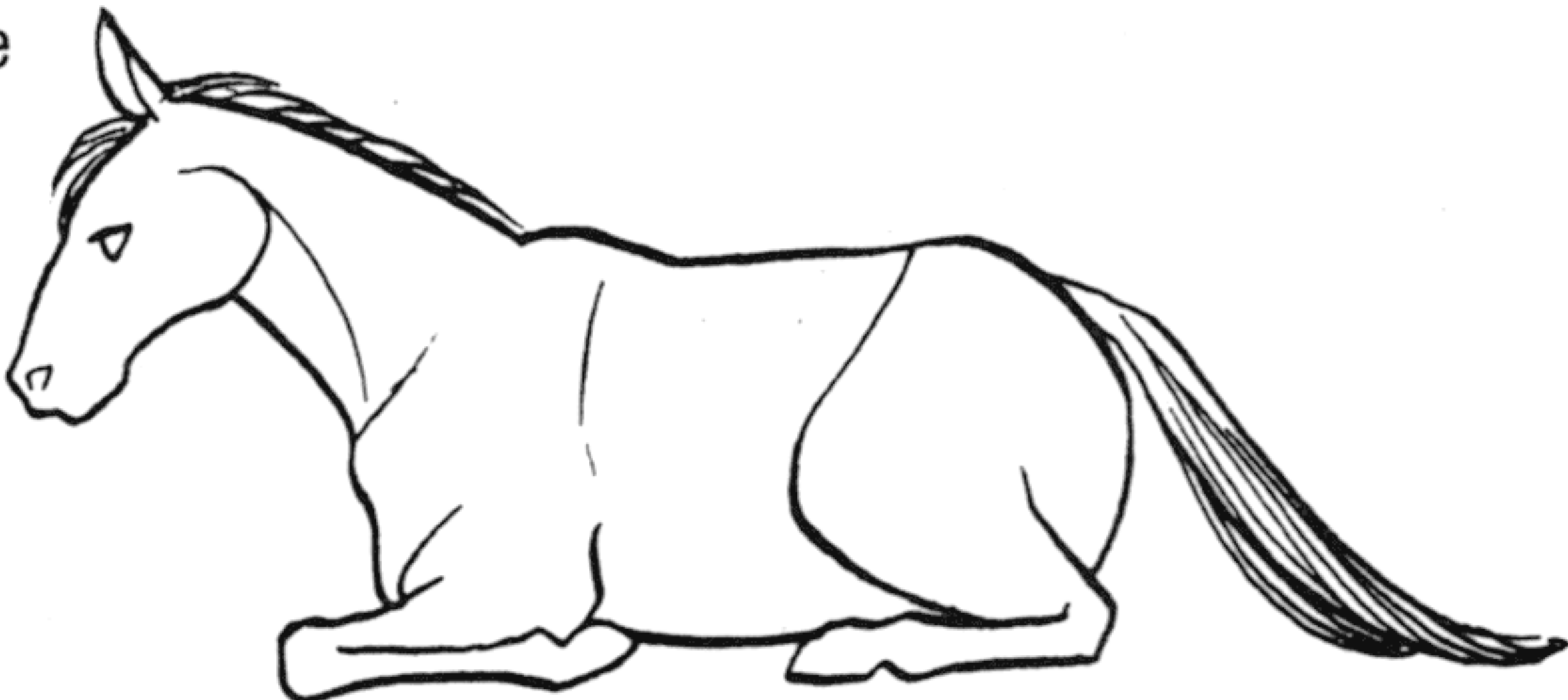
Deer



Cat



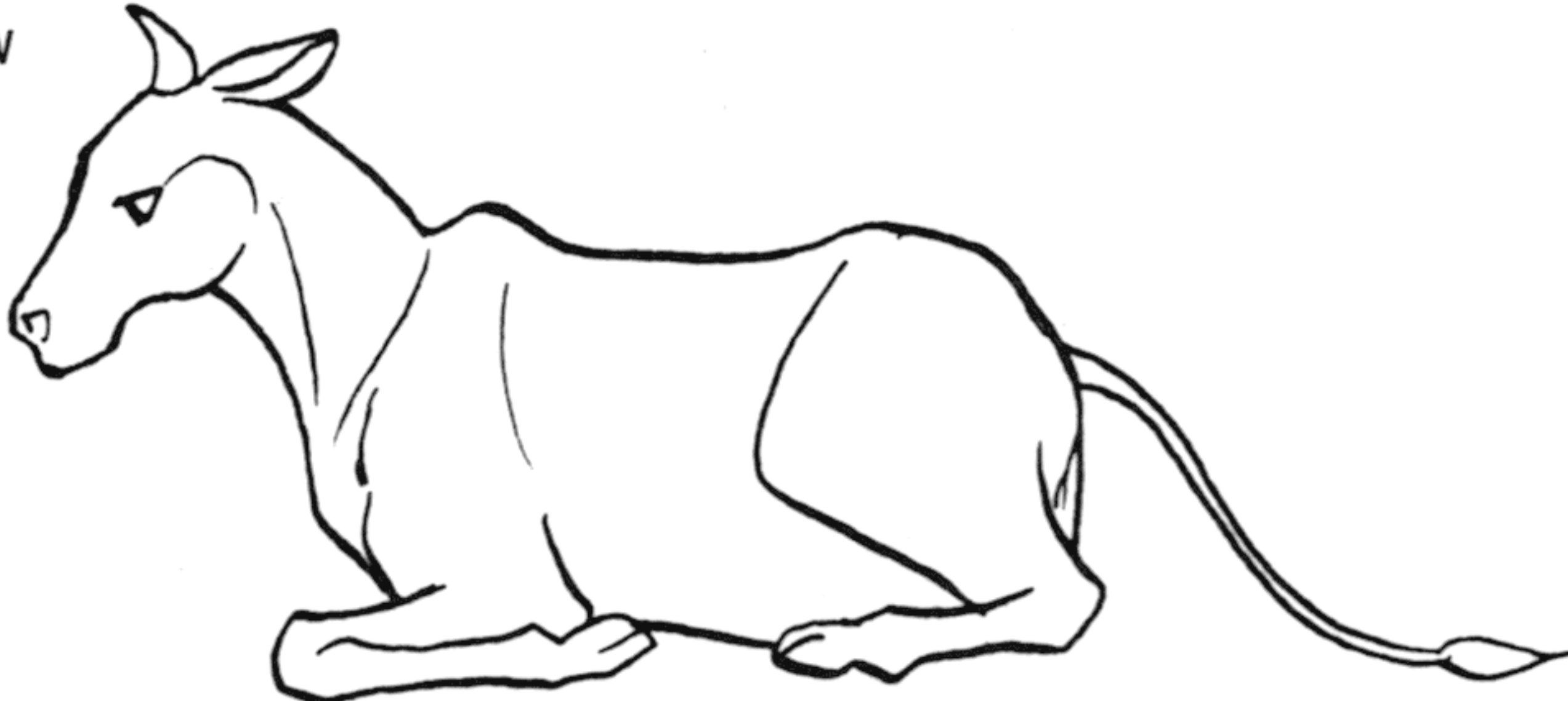
Horse



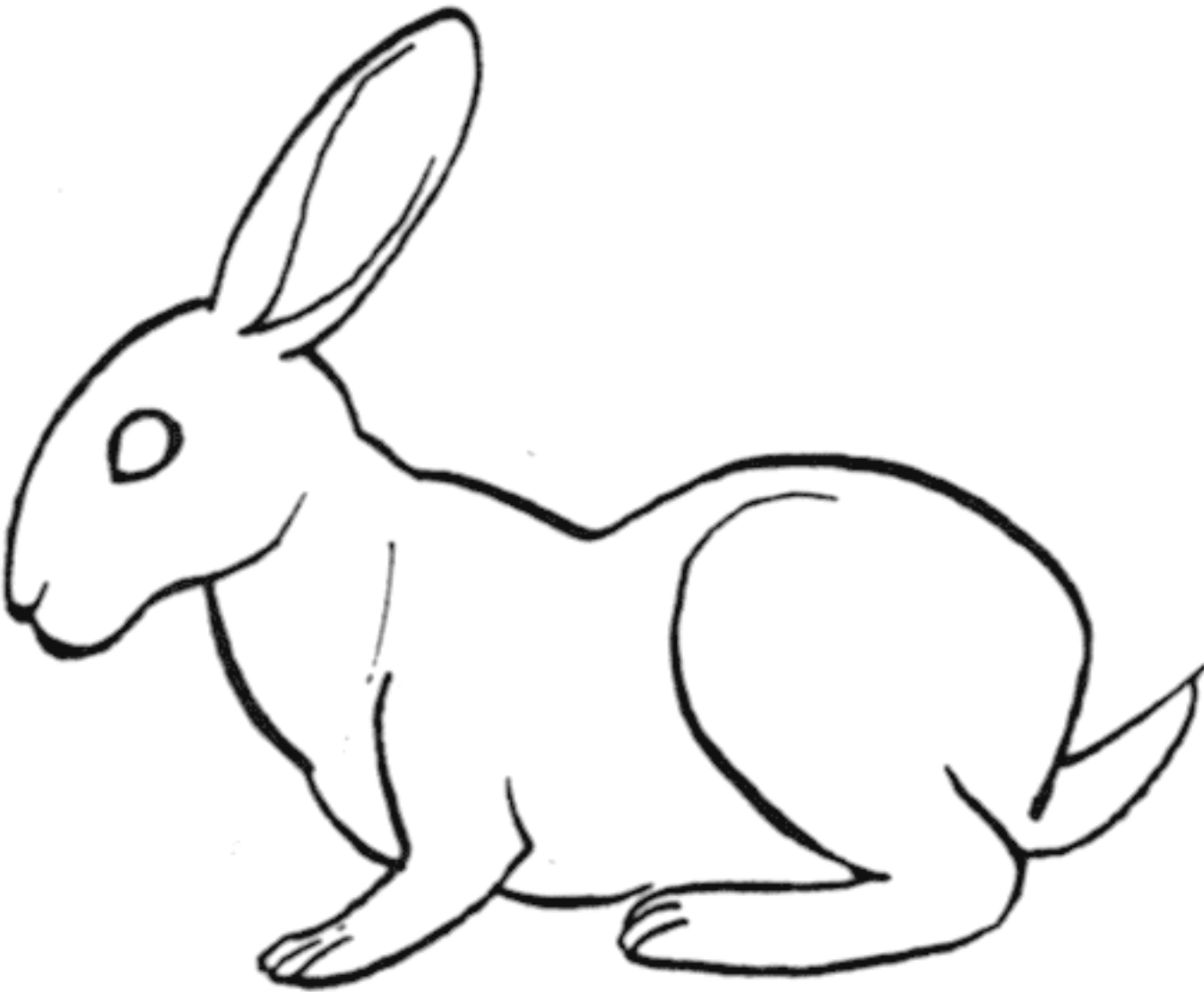
Ferret



Cow



Rabbit



Camel



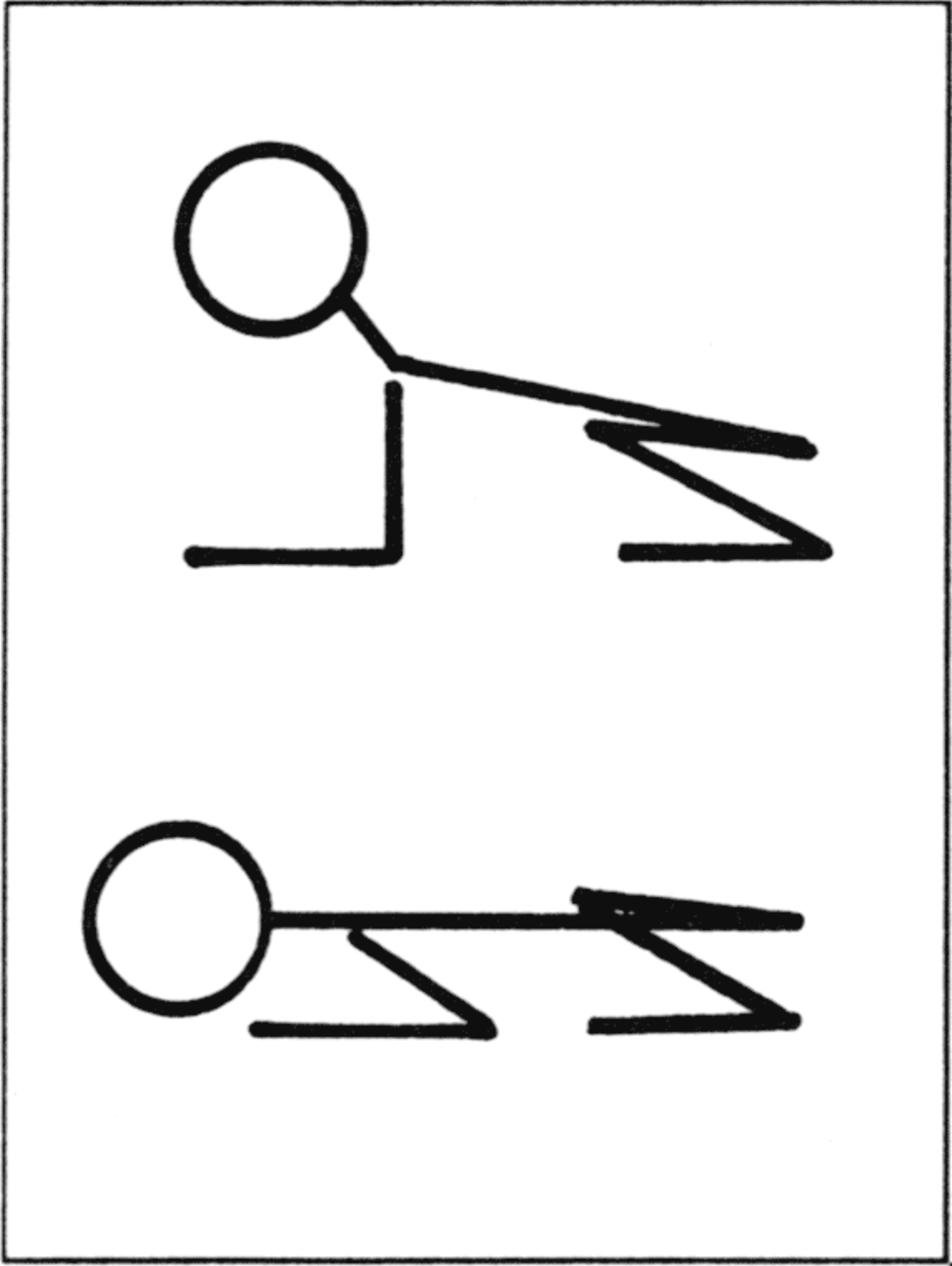
Hamster



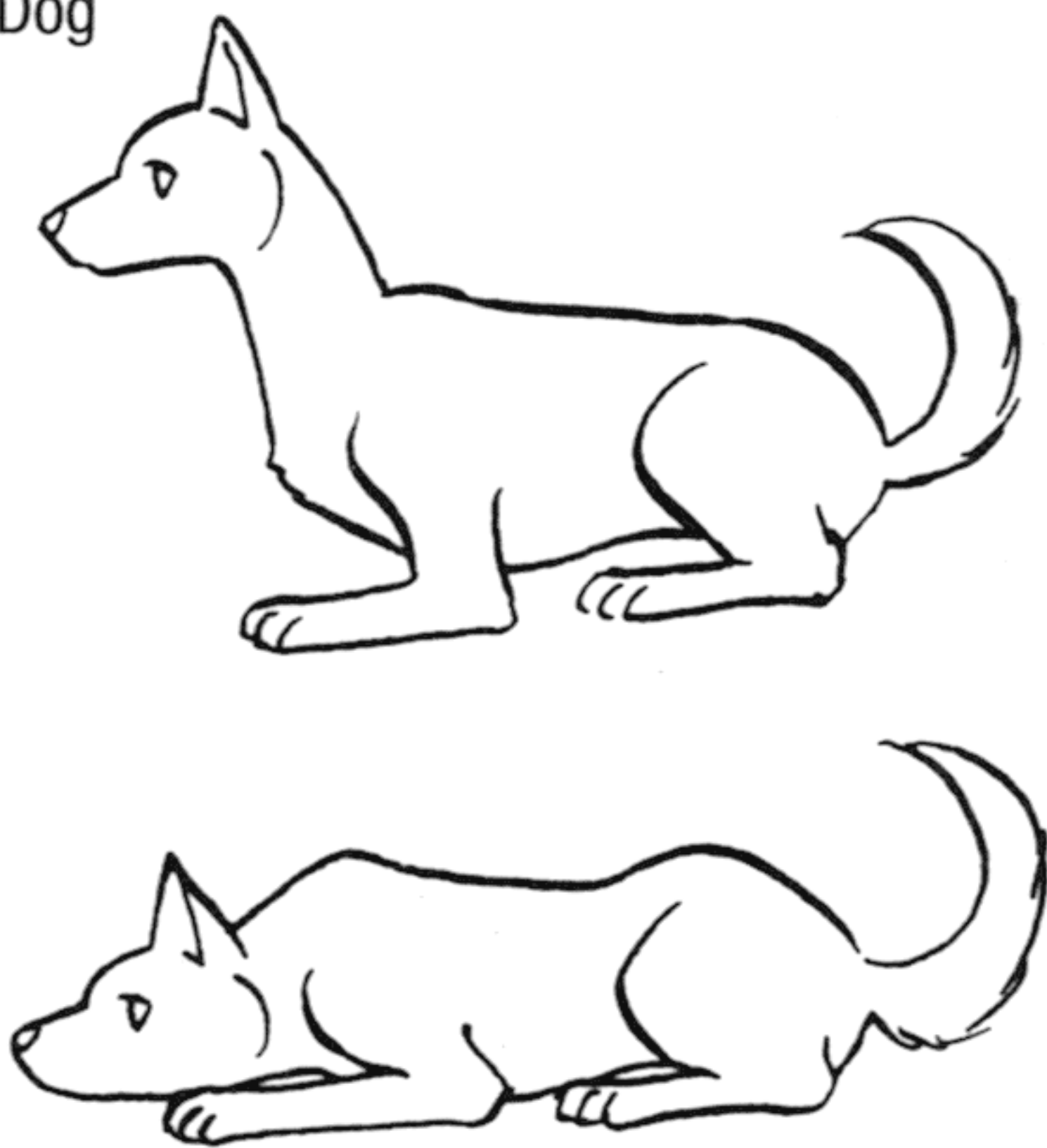


Lying Down

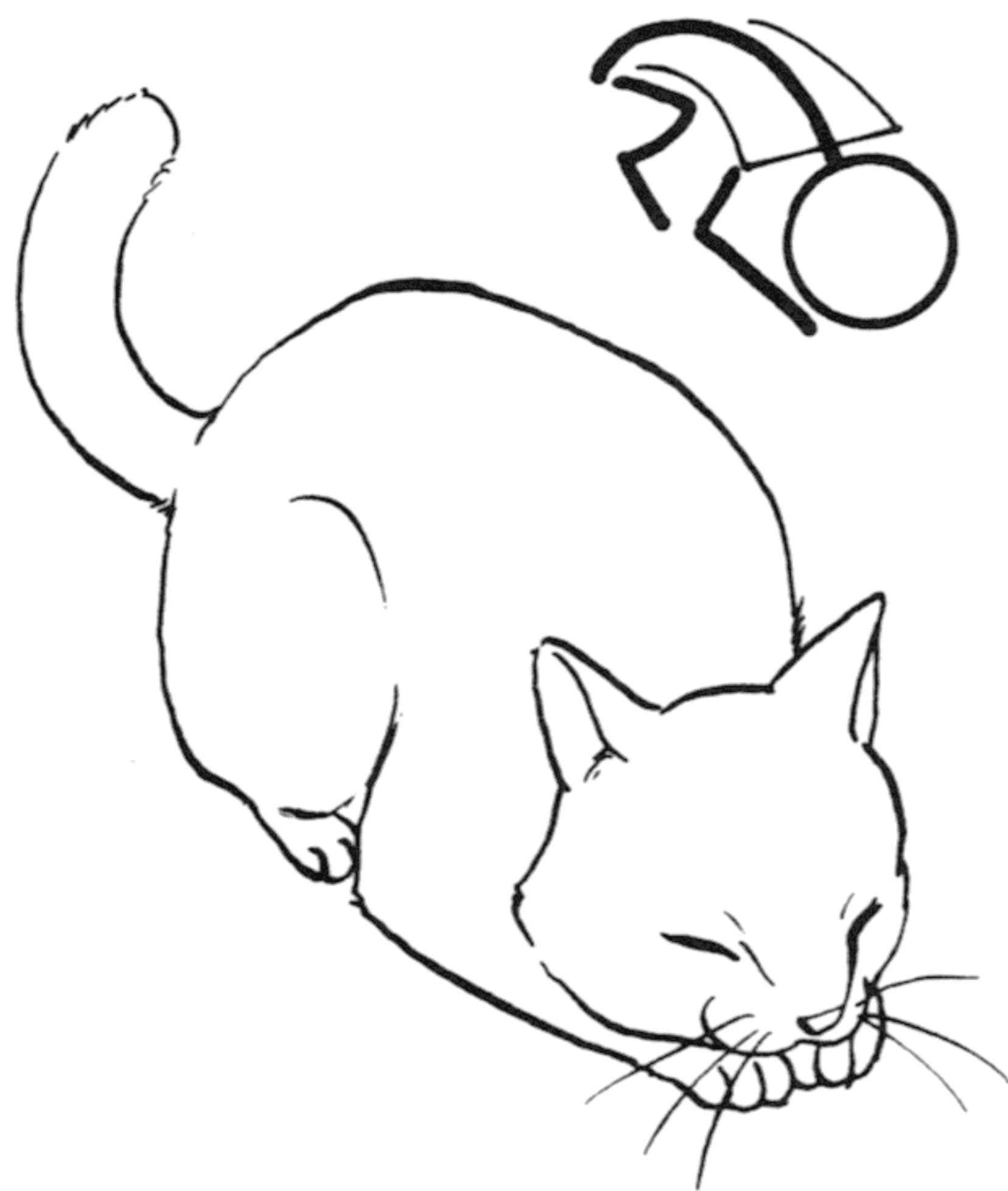
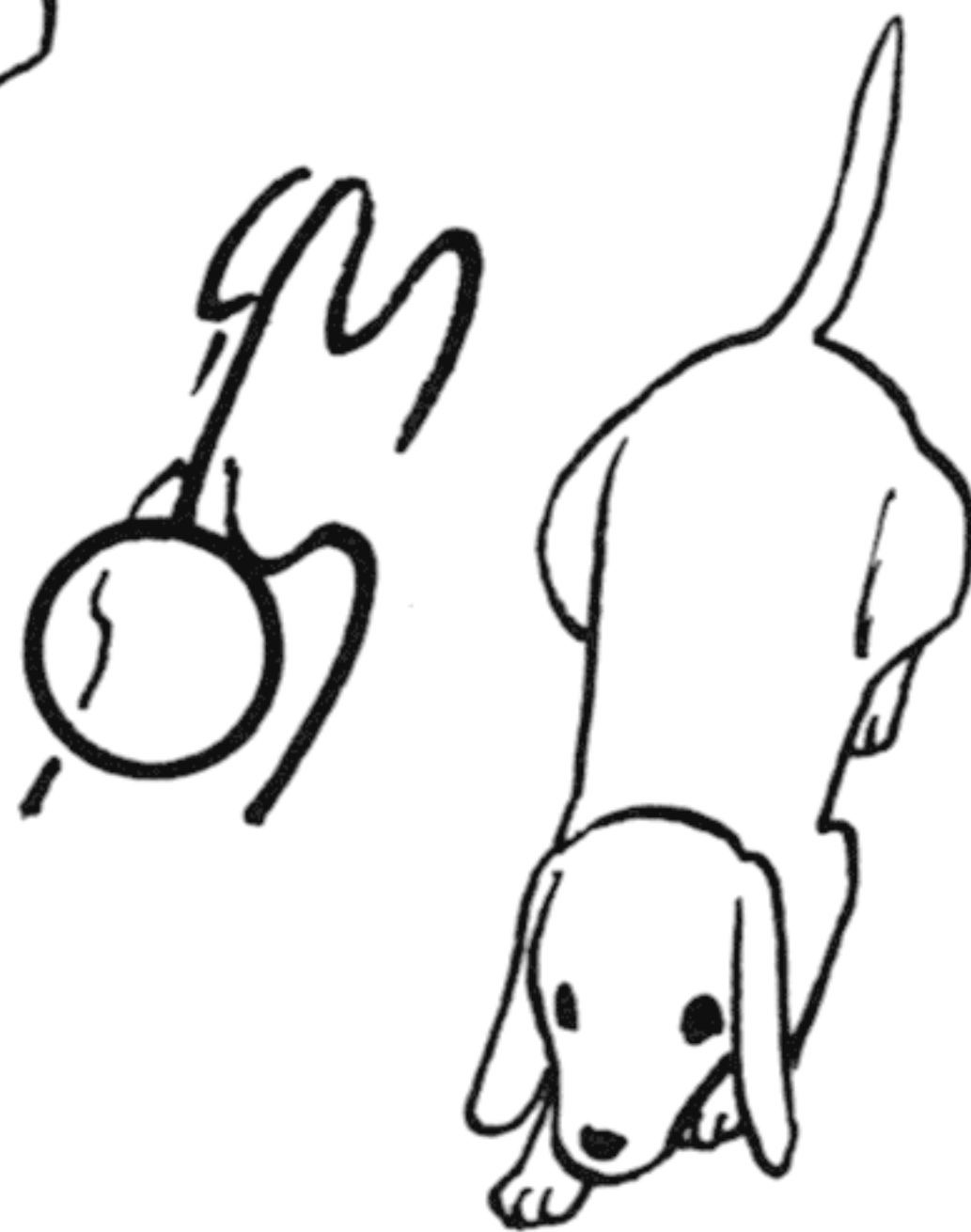
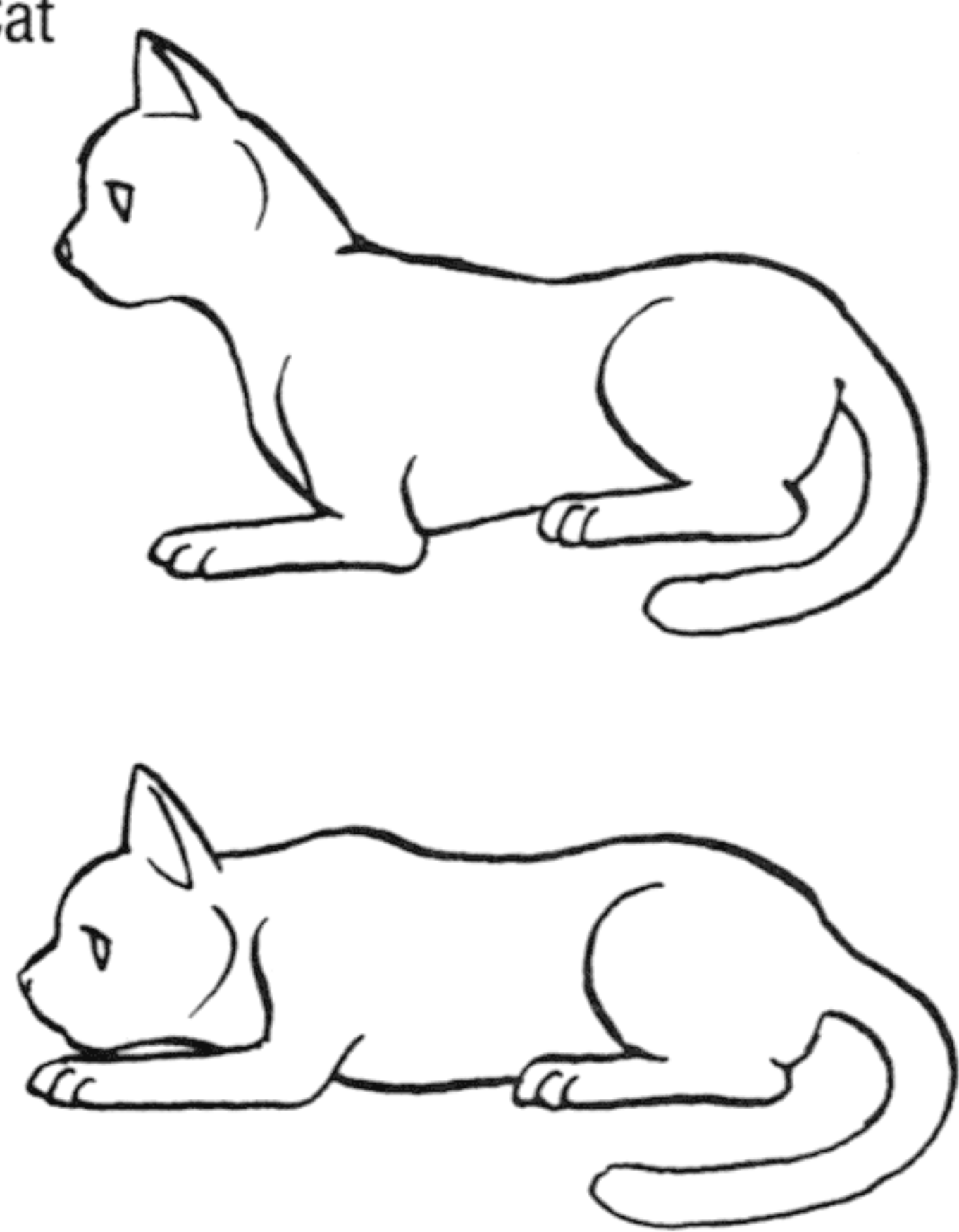
The animal lies with its head on the ground or resting on its forelegs. The elbow is extended forward or is pulled back.



Dog

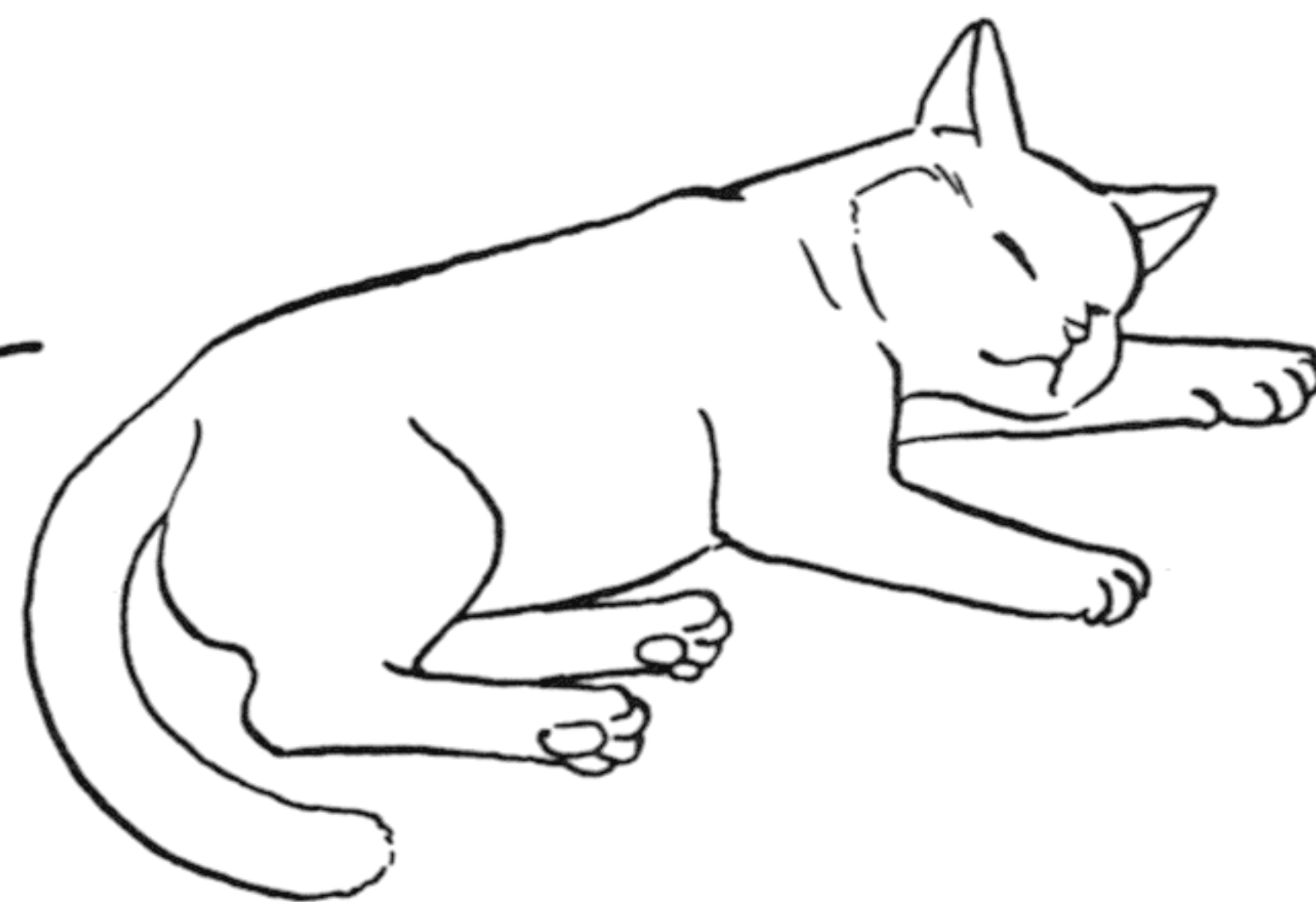
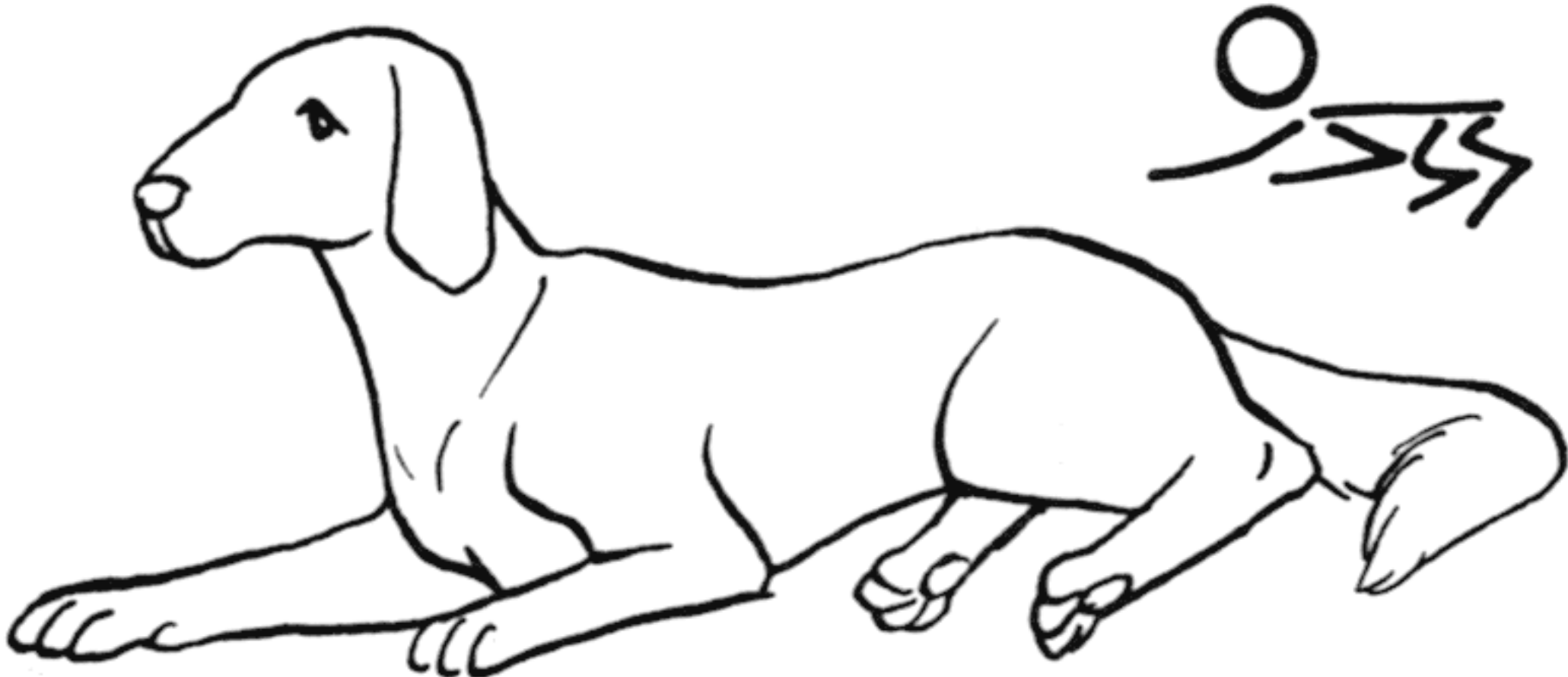


Cat



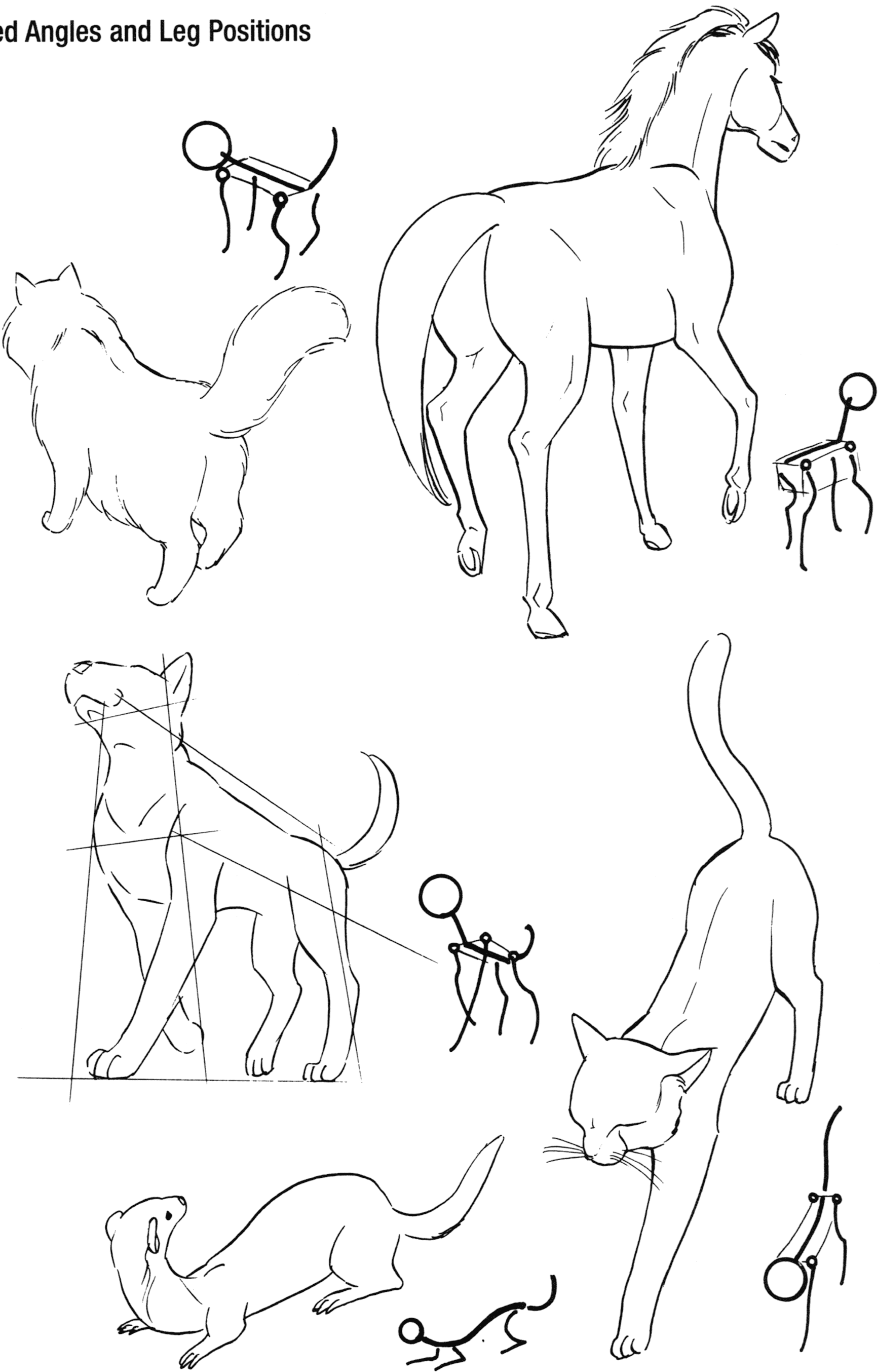
Rolling to the Side

Dogs, cat, deer, and other animals often roll onto their sides to relax and frequently fall asleep in this position.

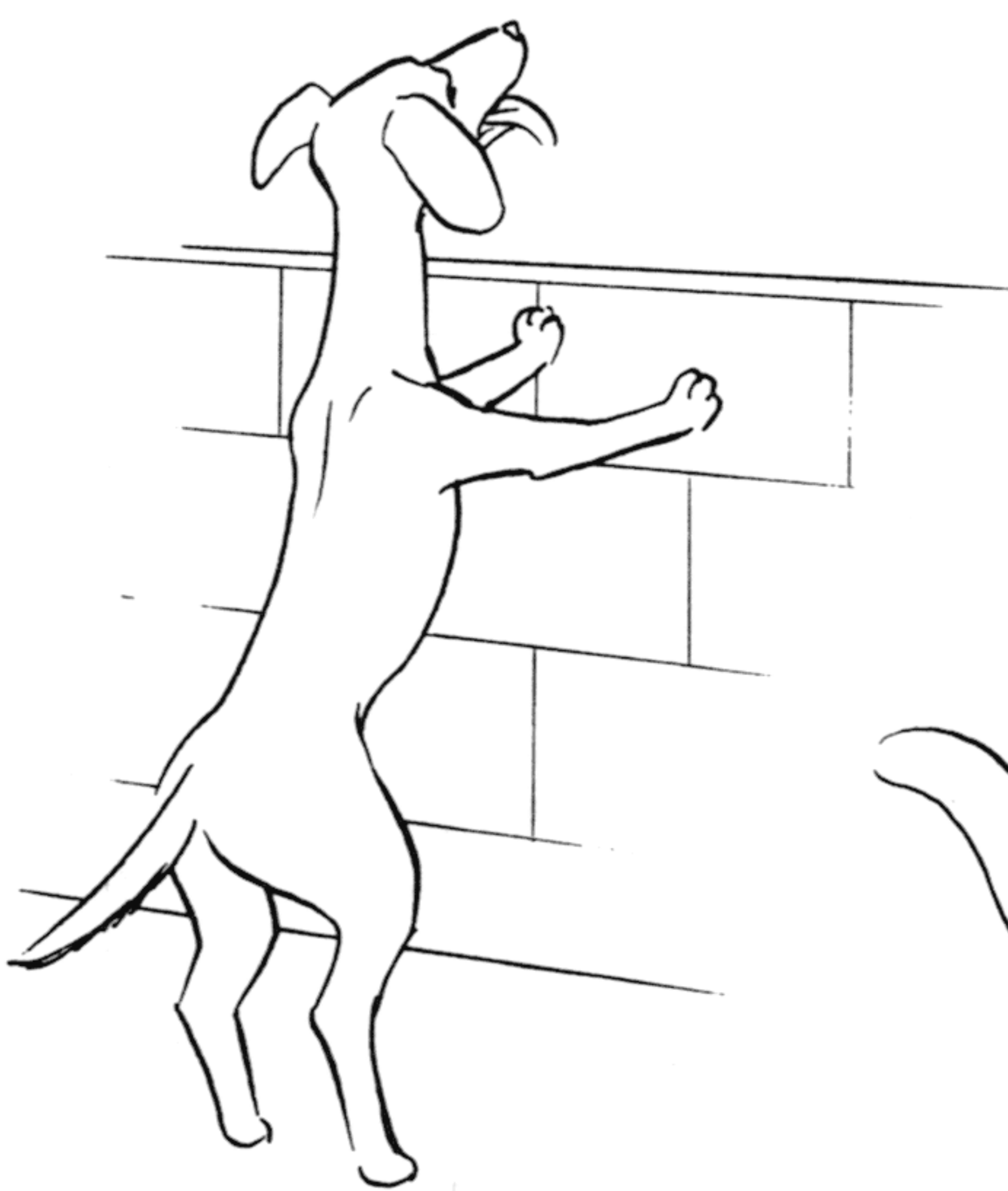
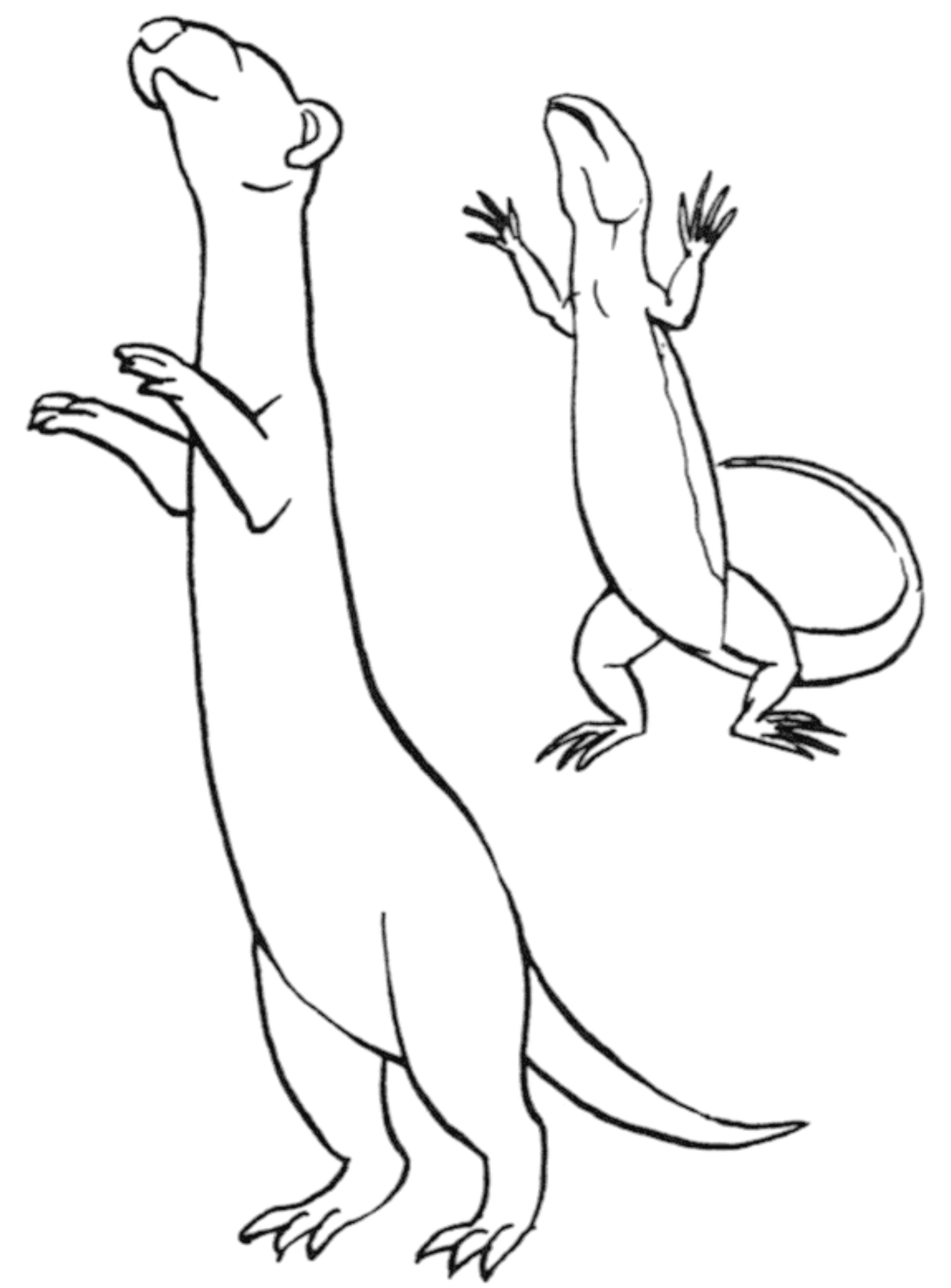
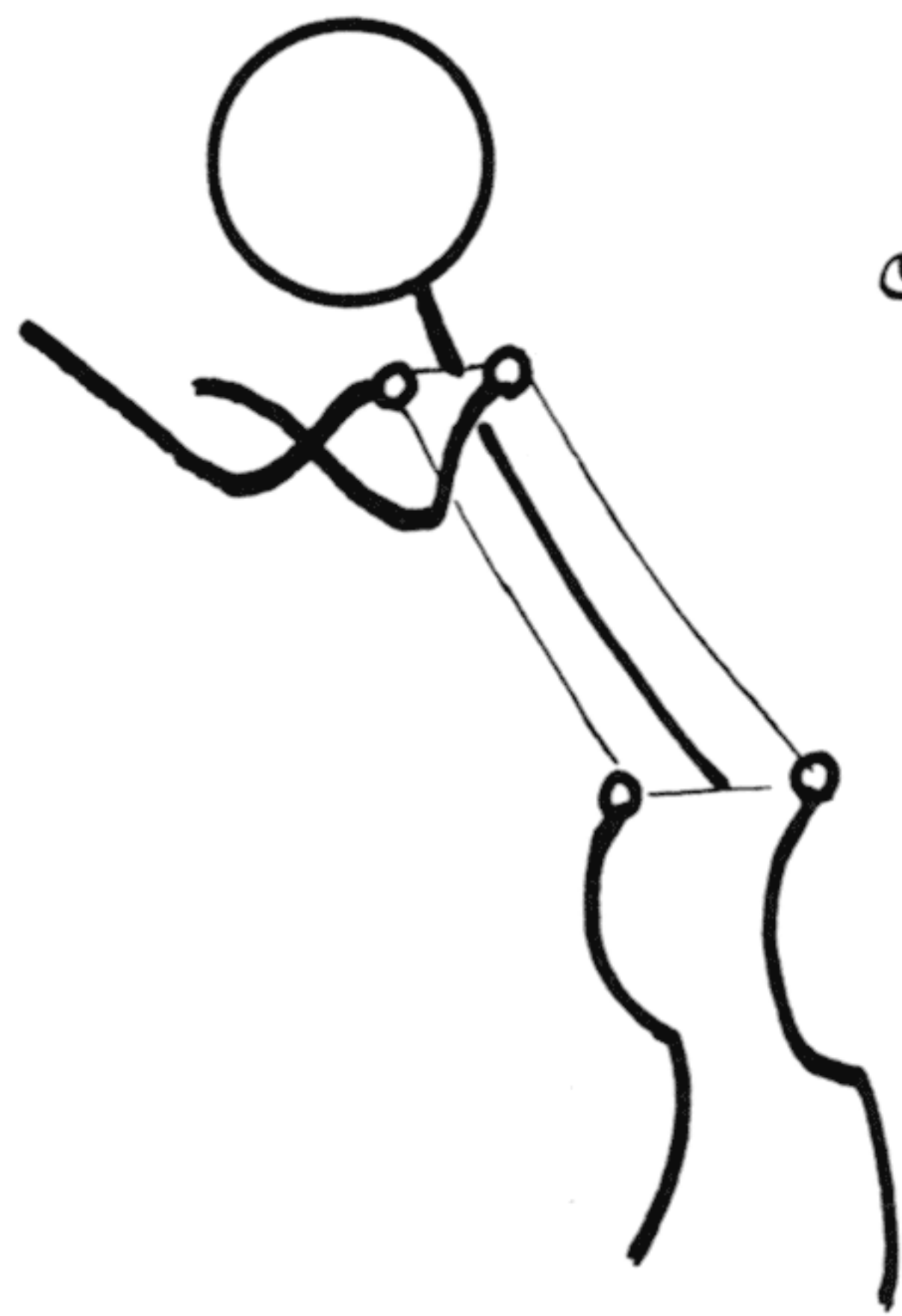
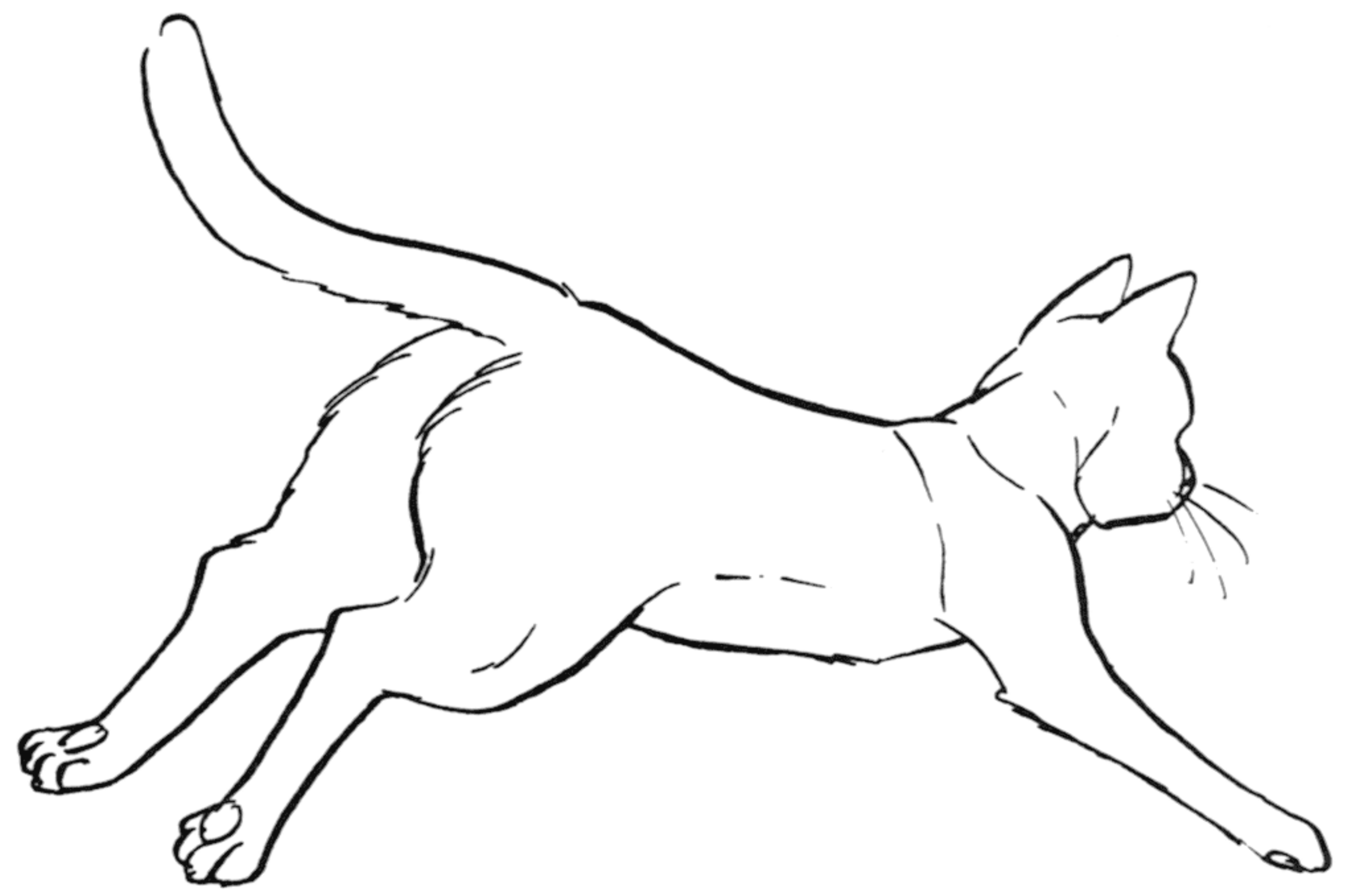
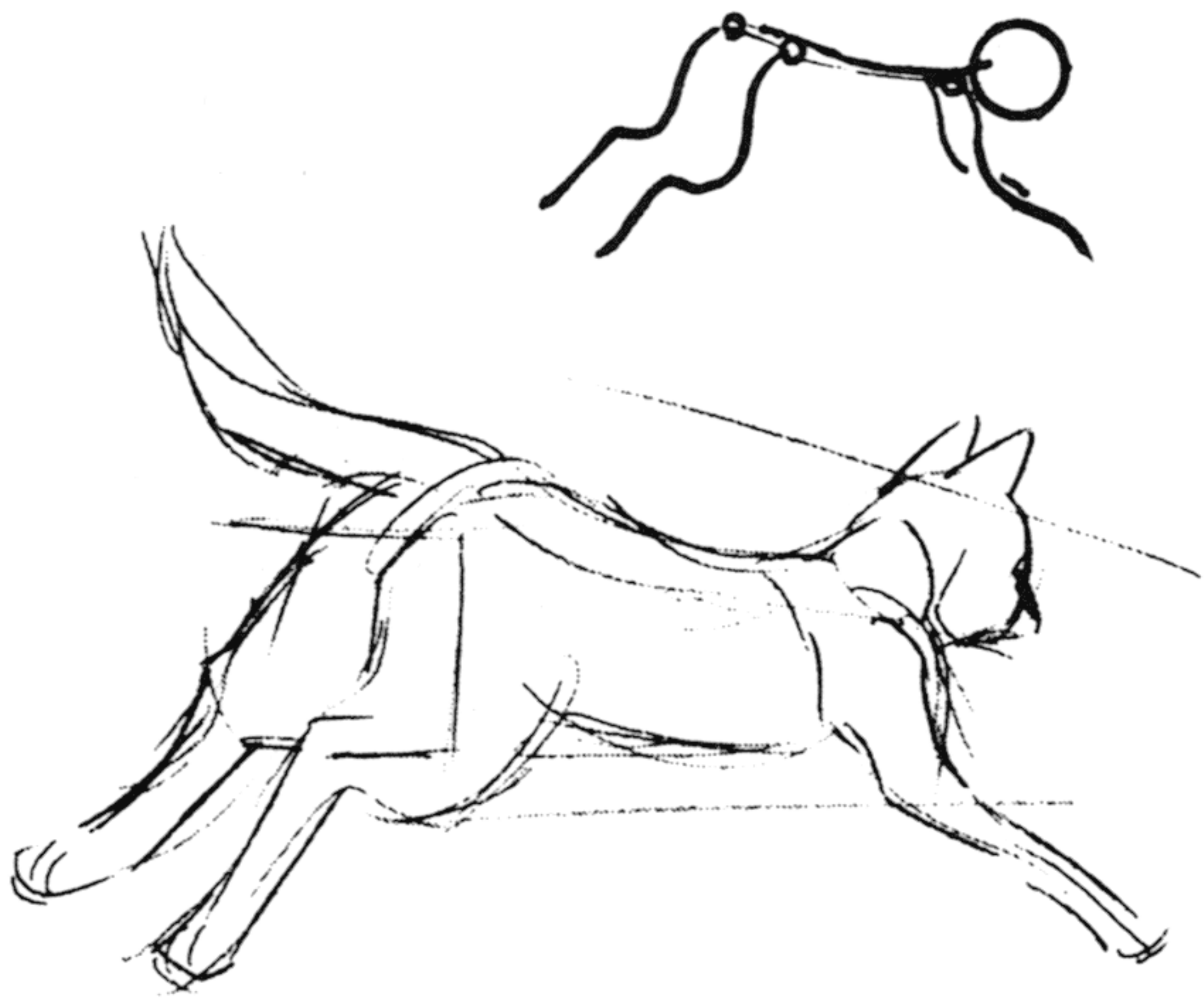




Assorted Angles and Leg Positions









# Animal Faces

Model Animal Faces →



Dog: Rectangular



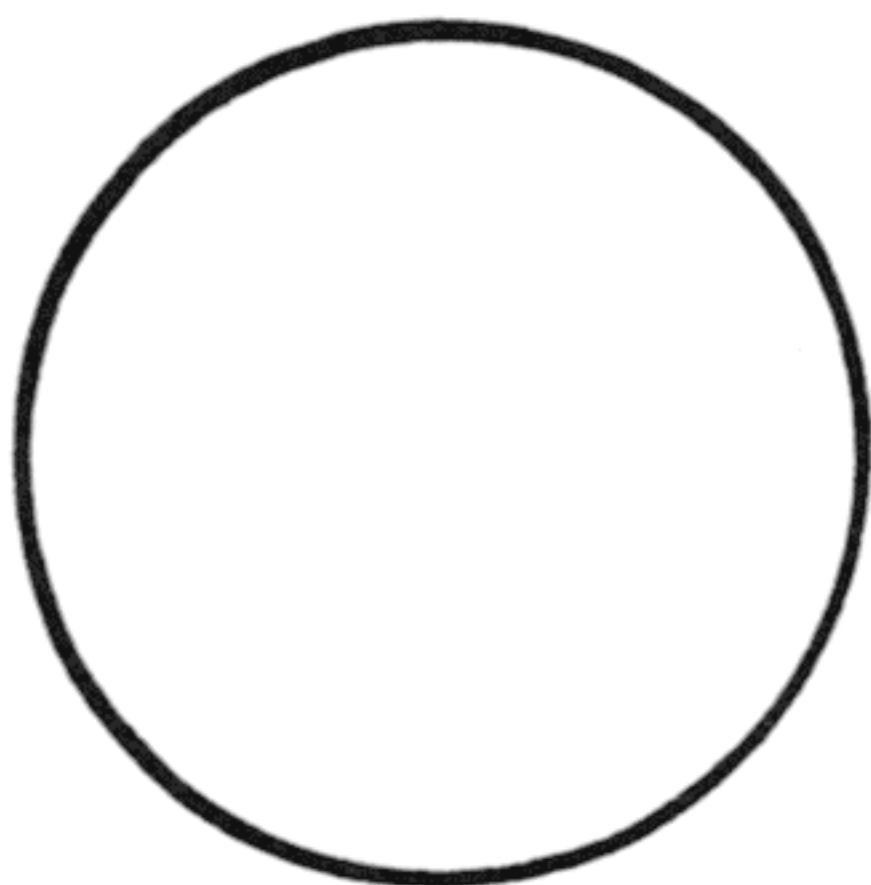
Cat: Oval  
(longish horizontally)



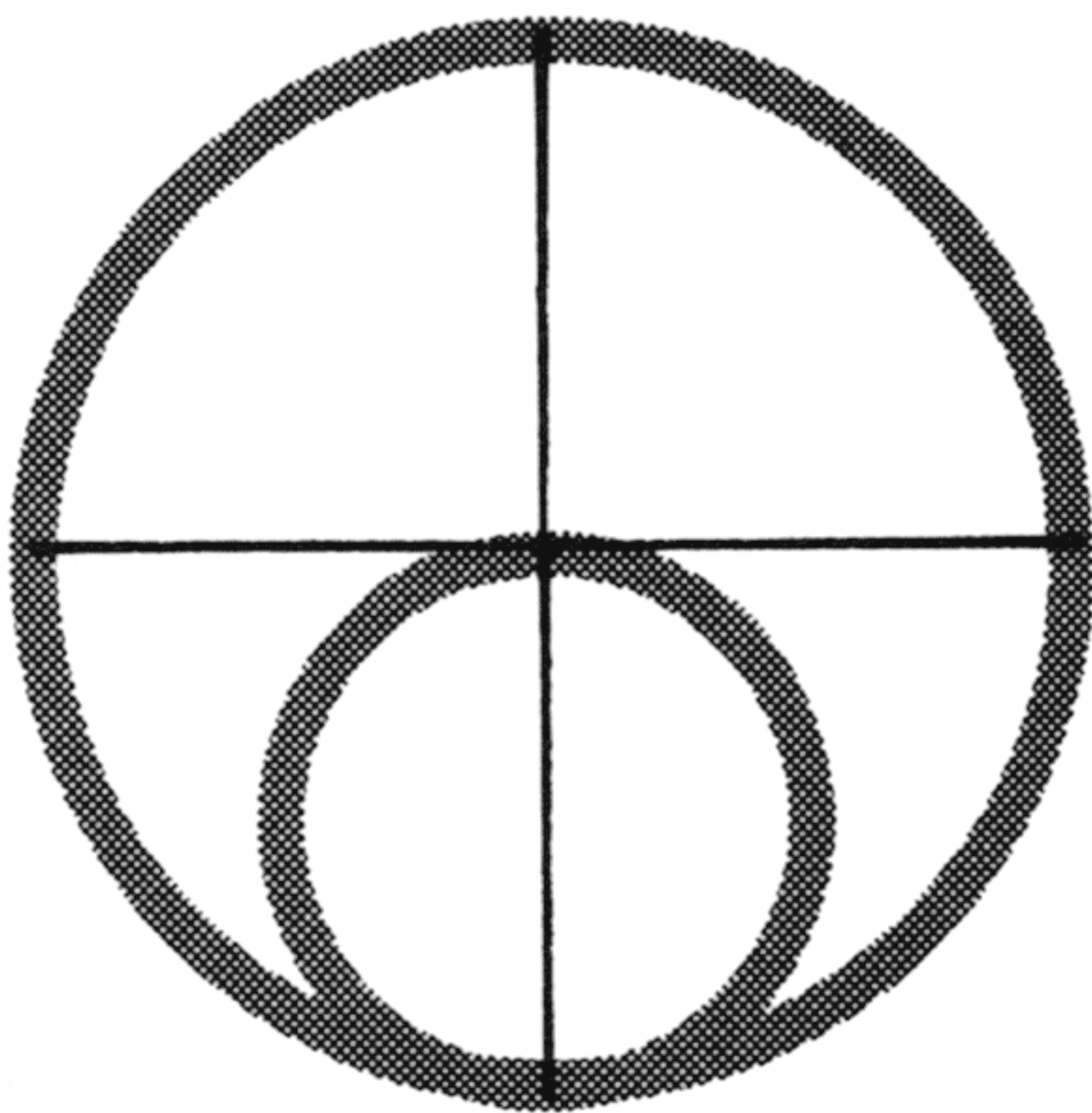
Hamster, ferret:  
Roundish triangle



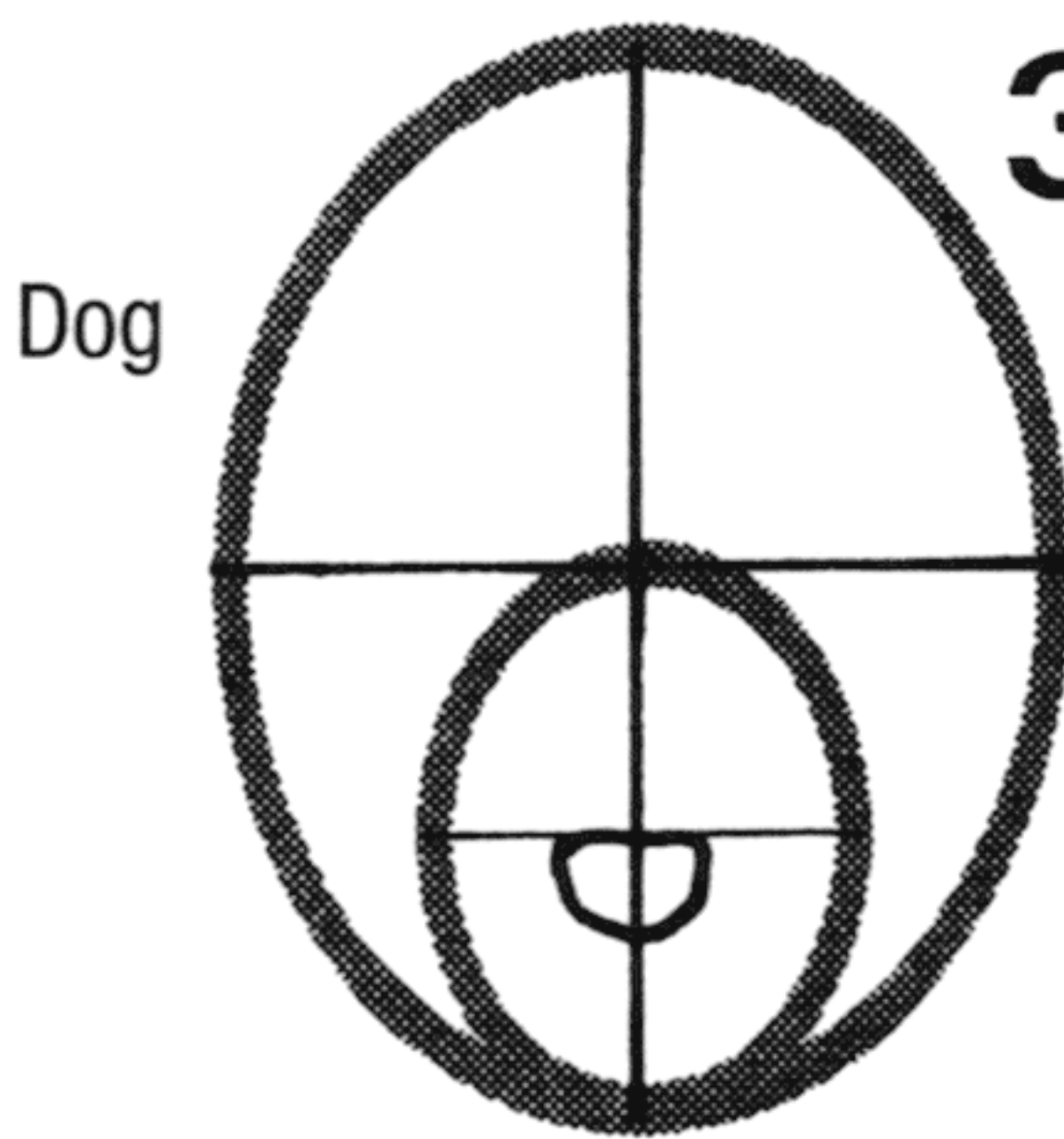
Rabbit:  
Trapezoidal  
(roundish triangle)



1. Start with a circle.



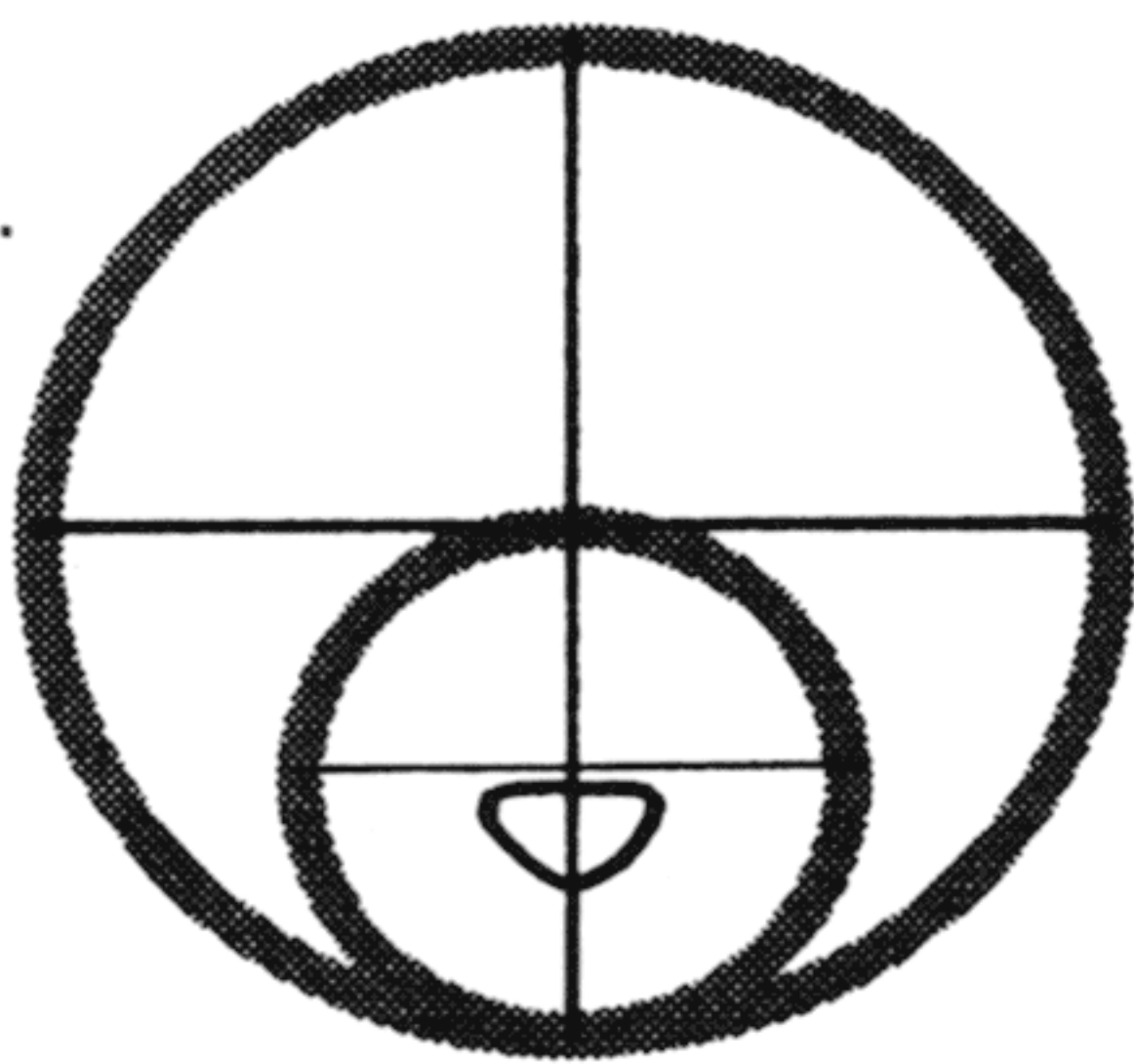
2. Add a cross and draw a circle in the lower half.



Dog

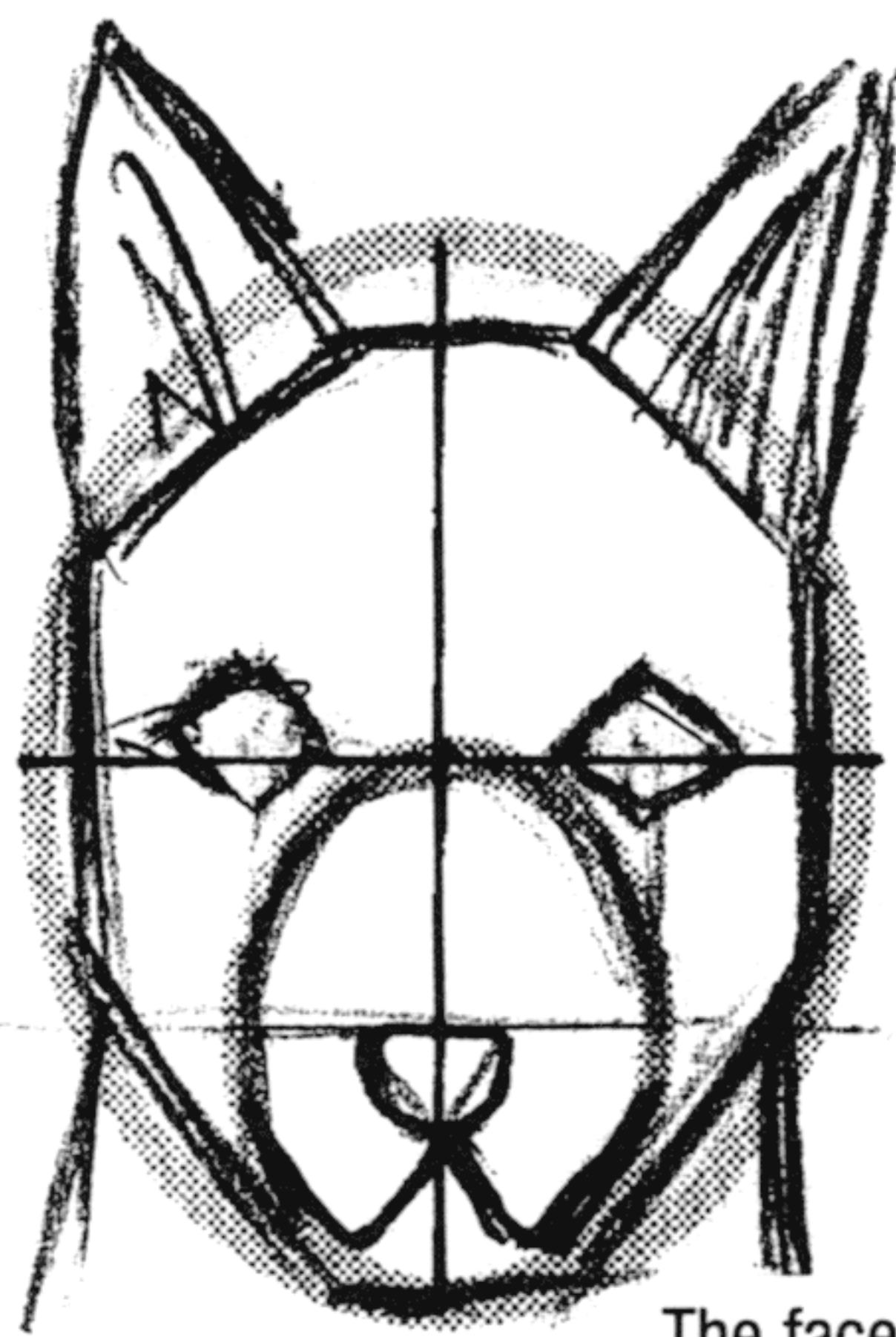
3. Determine the nose's positioning.

From a front view, the nose should be either centered on the lower half of the face or somewhere below center.

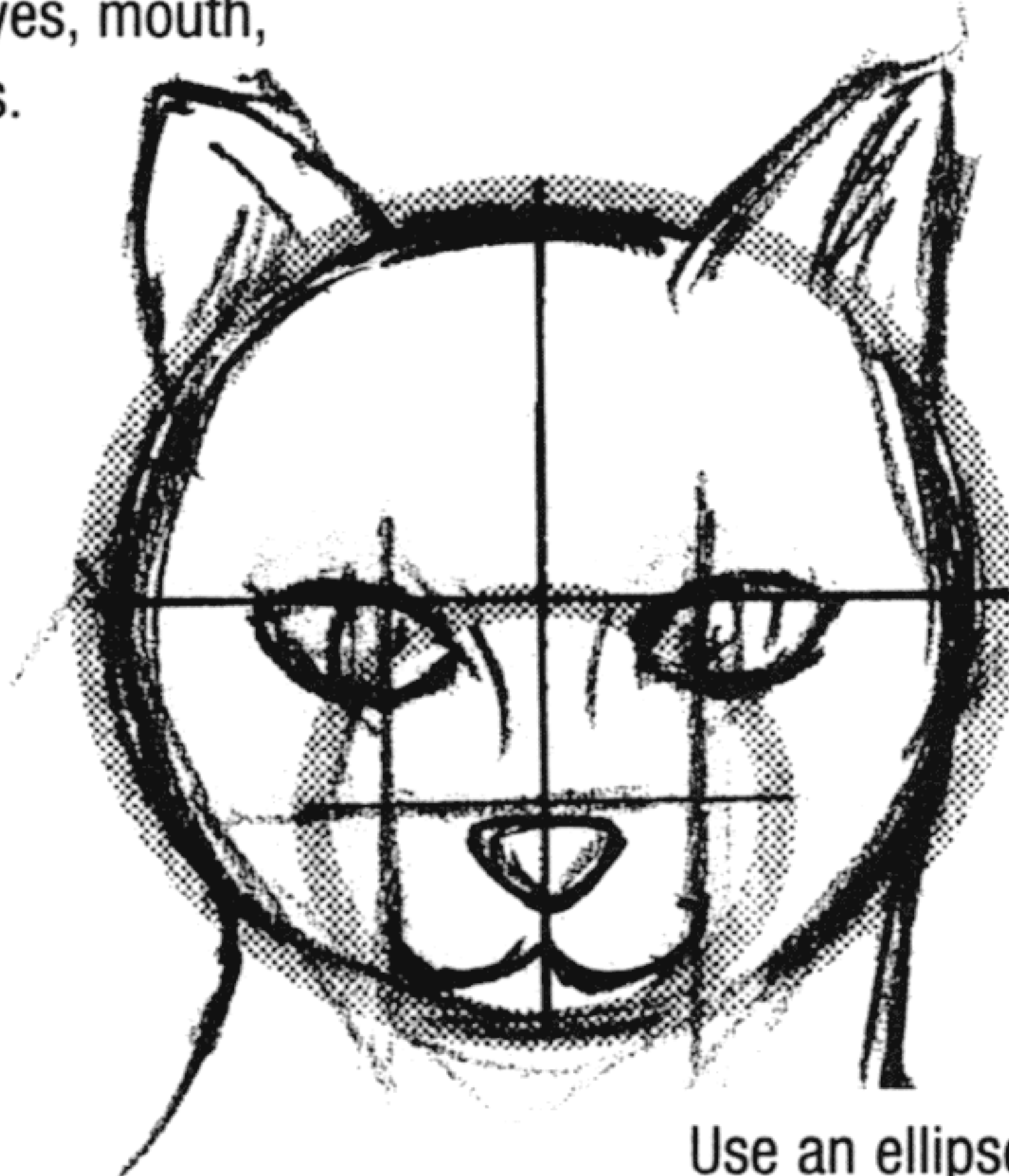


Cat

4. Draw the contours of the eyes, mouth, and ears.

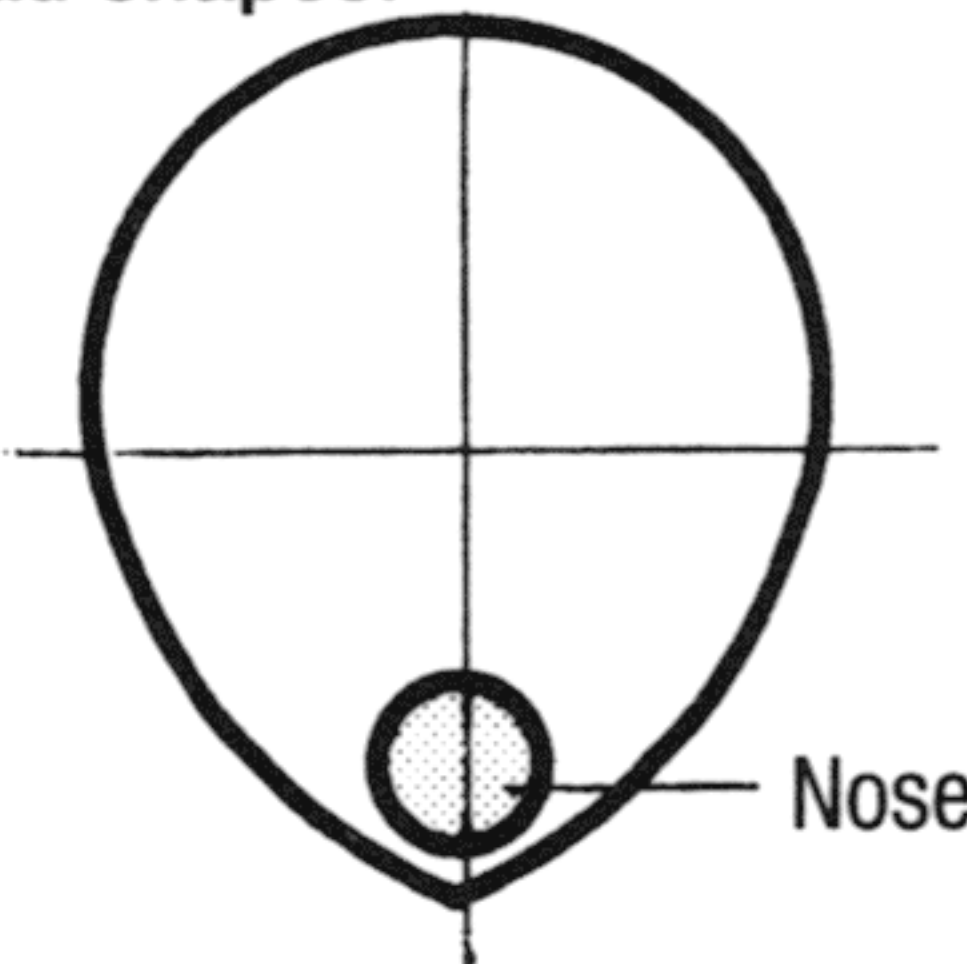


The face should be hexagonal, but vertically longish.



Use an ellipse that is long horizontally.

These animals have similar head shapes:



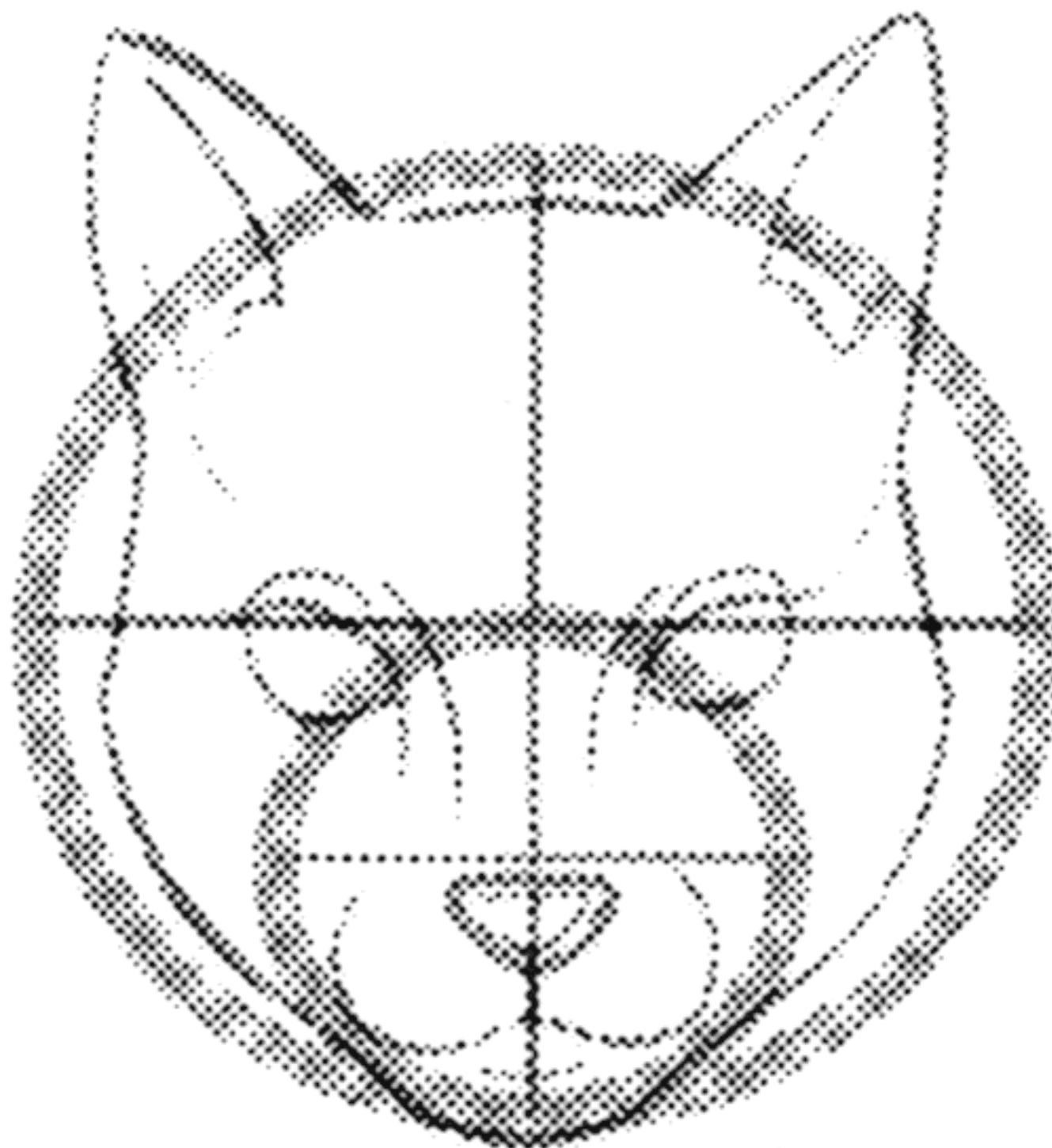
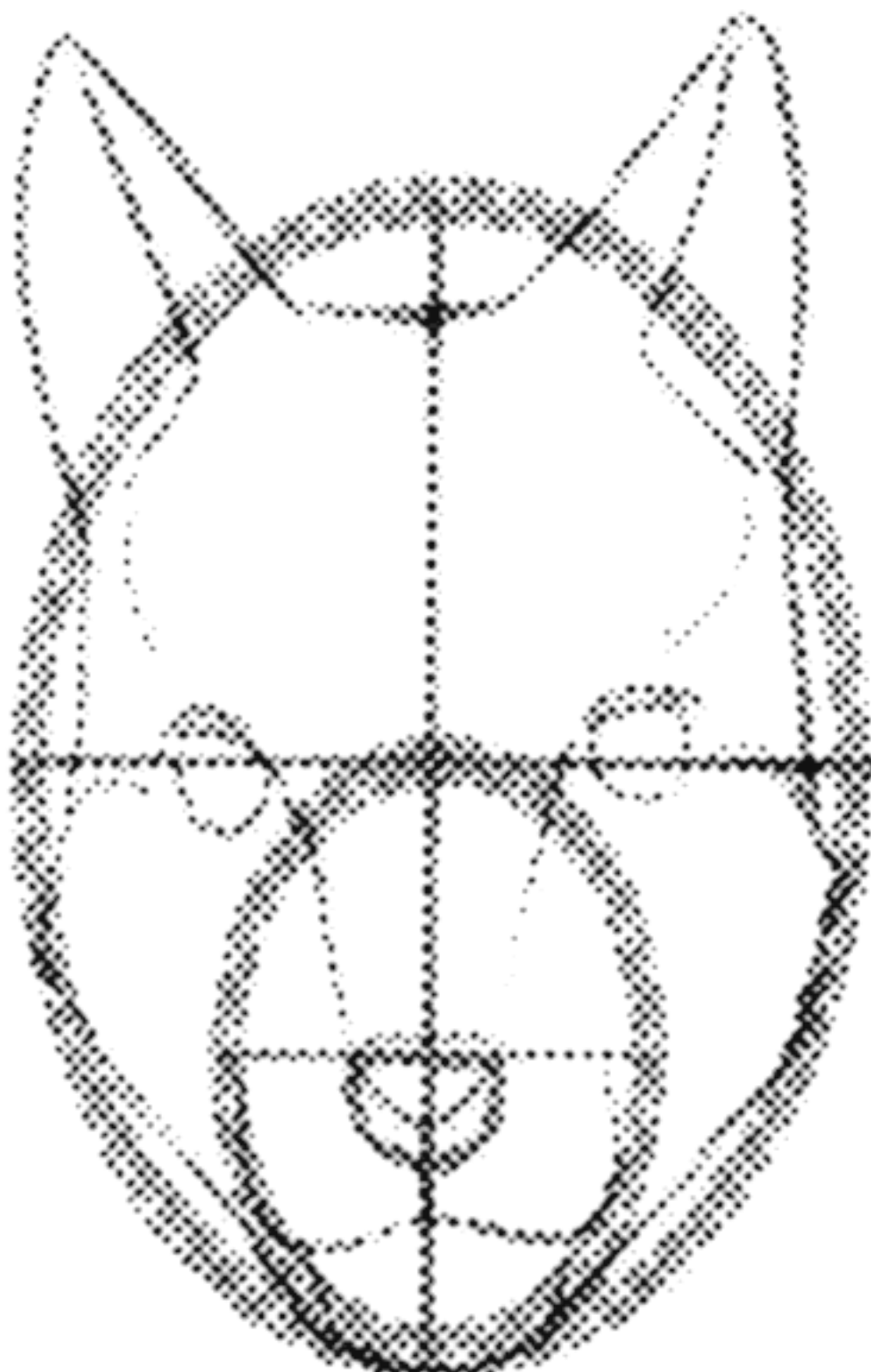
Hamster



Rabbit

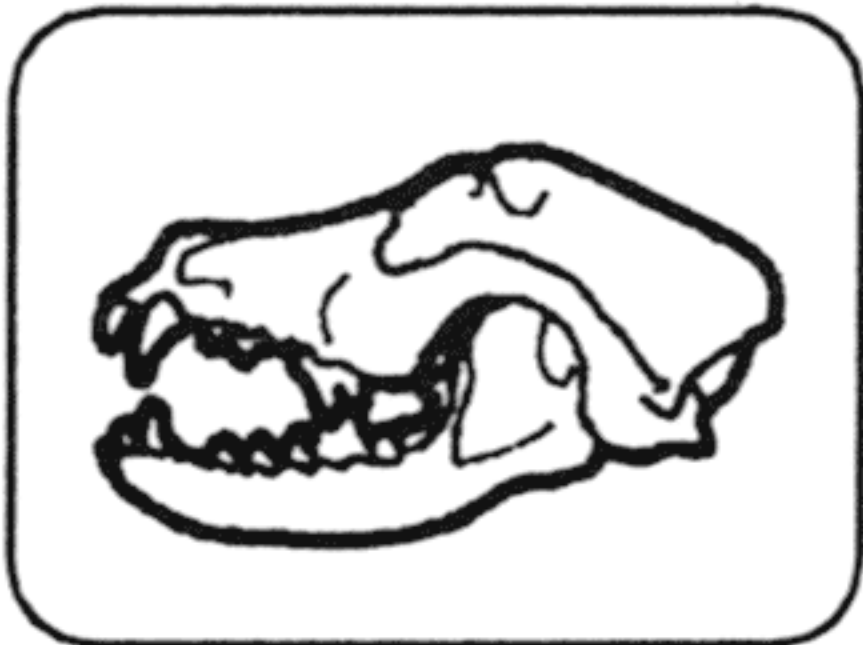


Ferret

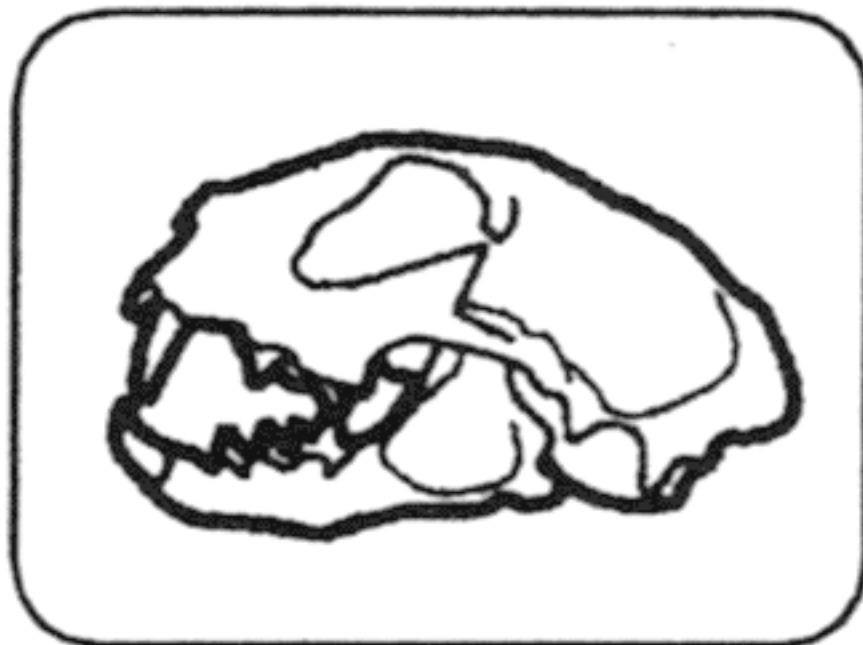




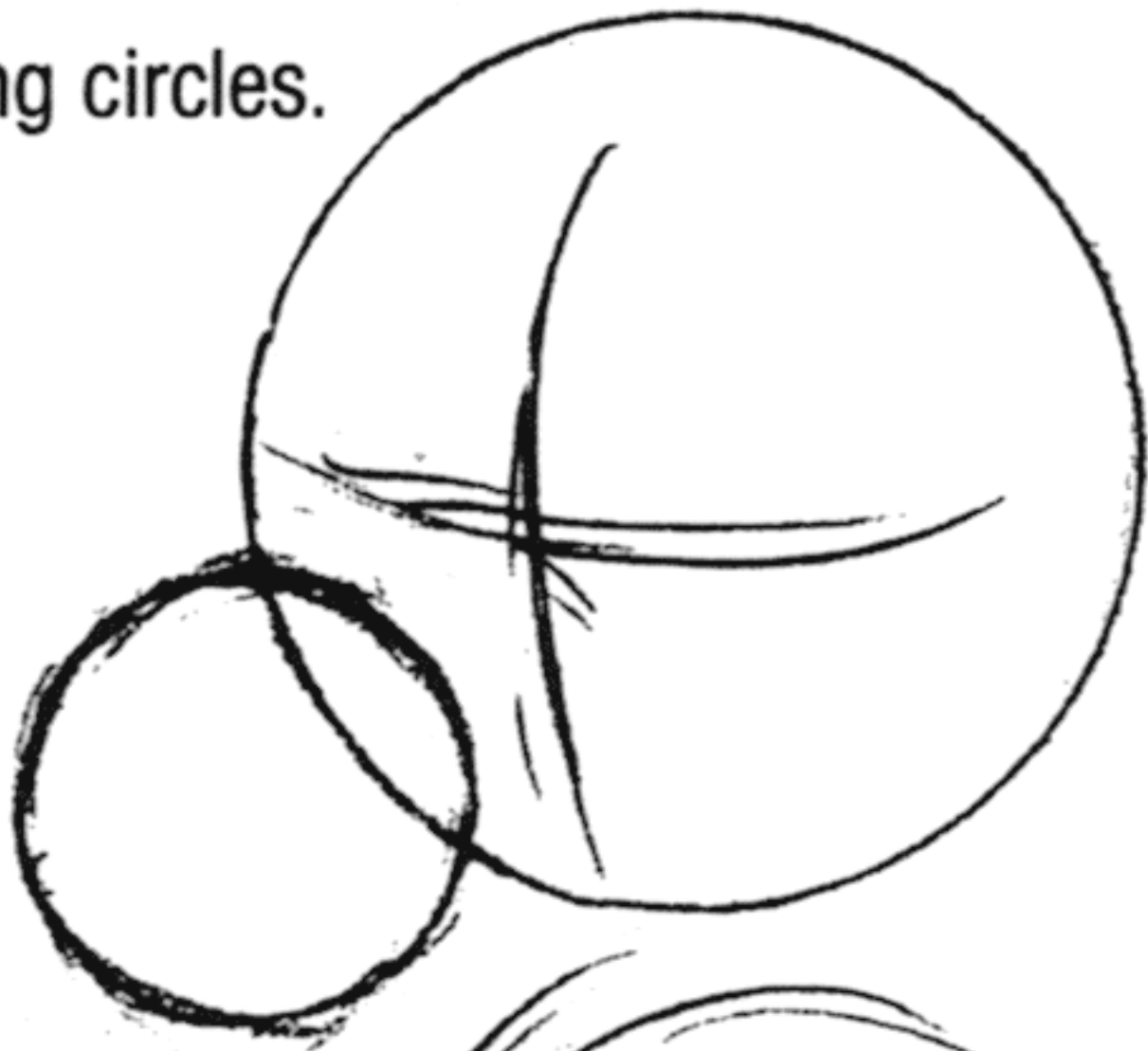
Dog Faces: Dogs' noses determine the length of their faces.



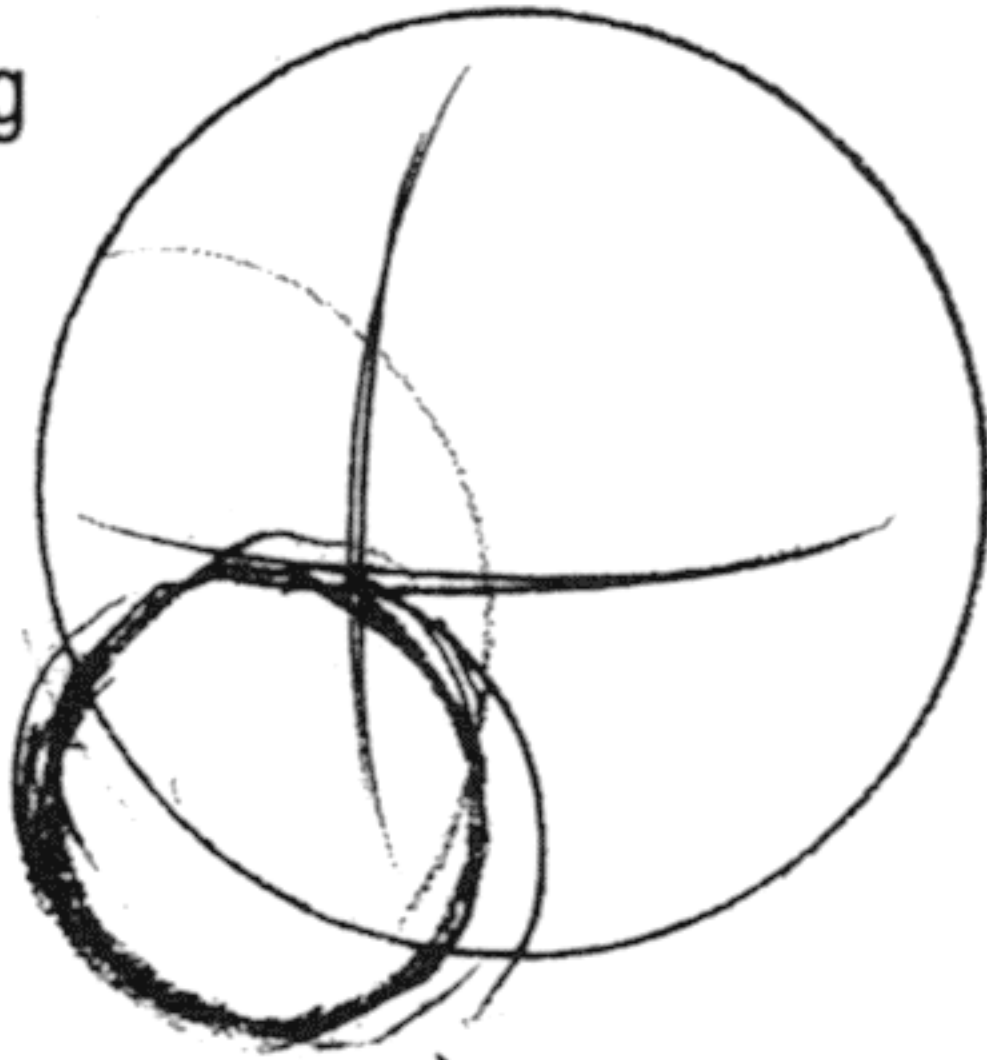
Cat Faces: Cats have shorter faces than dogs.



Draw two overlapping circles.



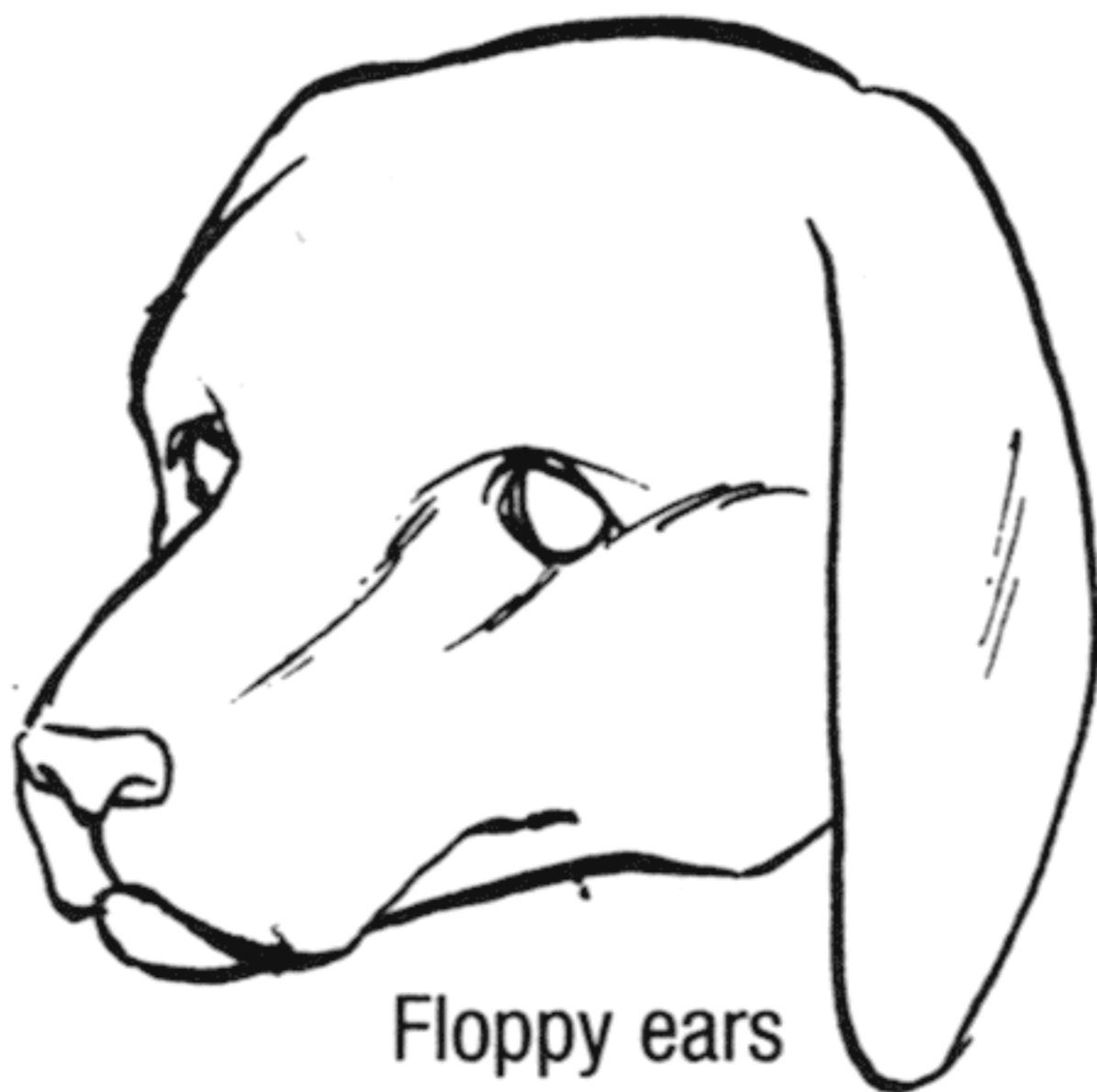
Draw two circles overlapping to a considerable degree.



Draw the face's outline.



Sketch guidelines for the face's center.



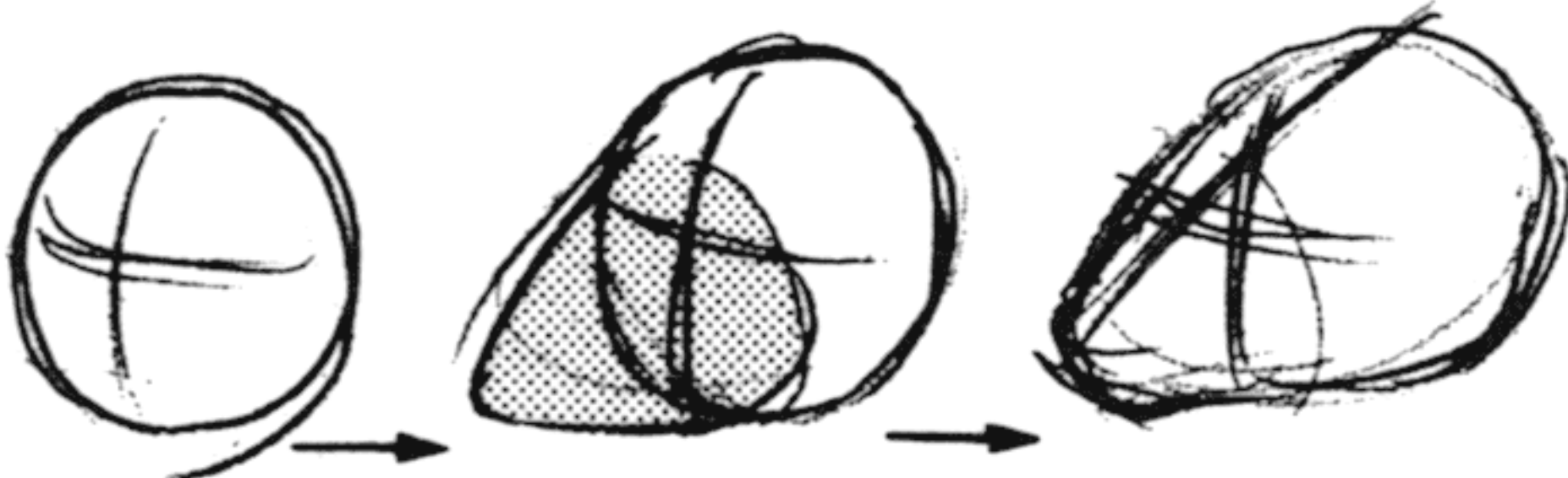
Pointed ears

Floppy ears

With nose bridge

Without nose bridge

Ferret, Hamster, and Rabbit Faces



Draw a circle with a beak.



Ferrets have small ears.



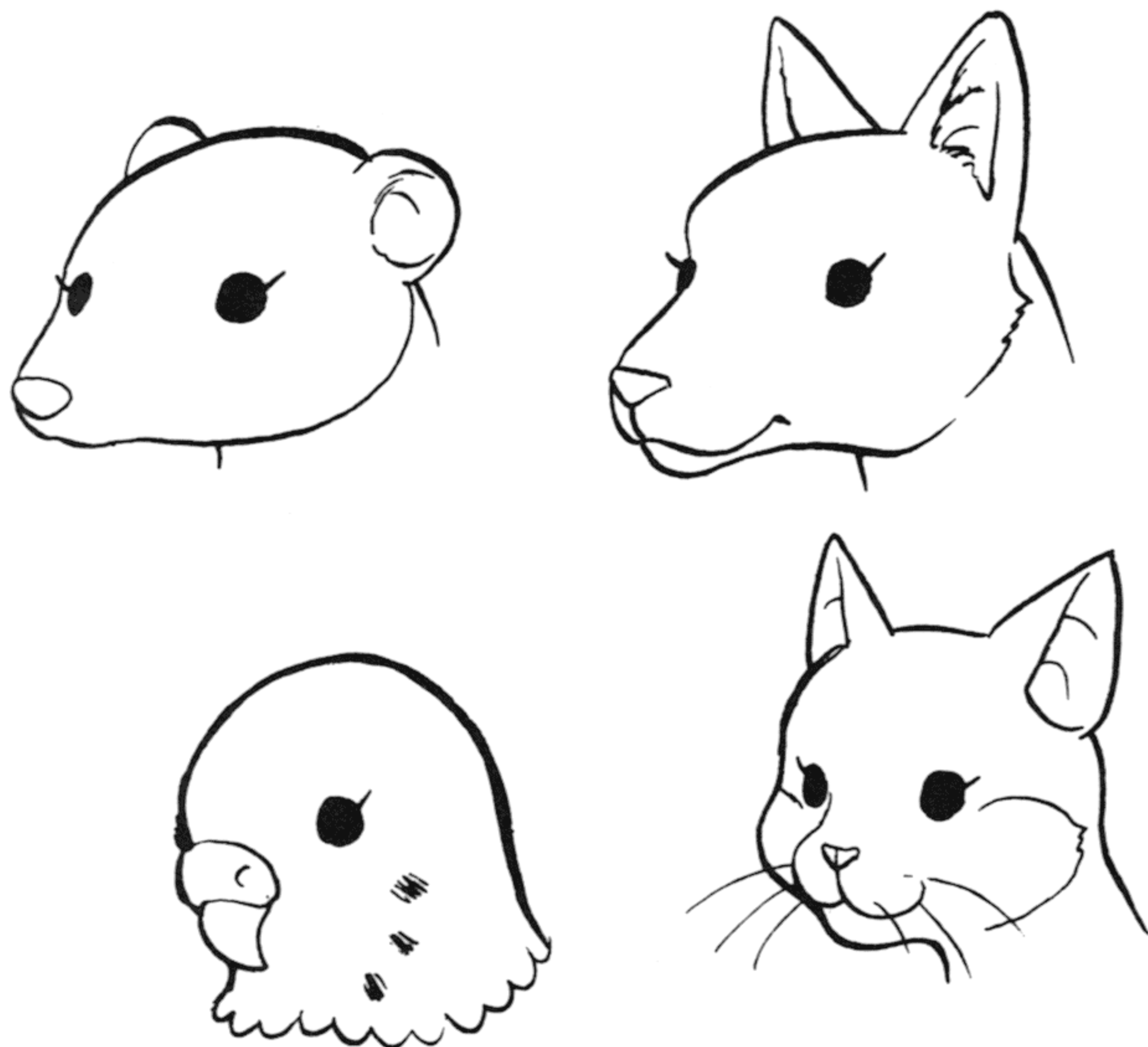
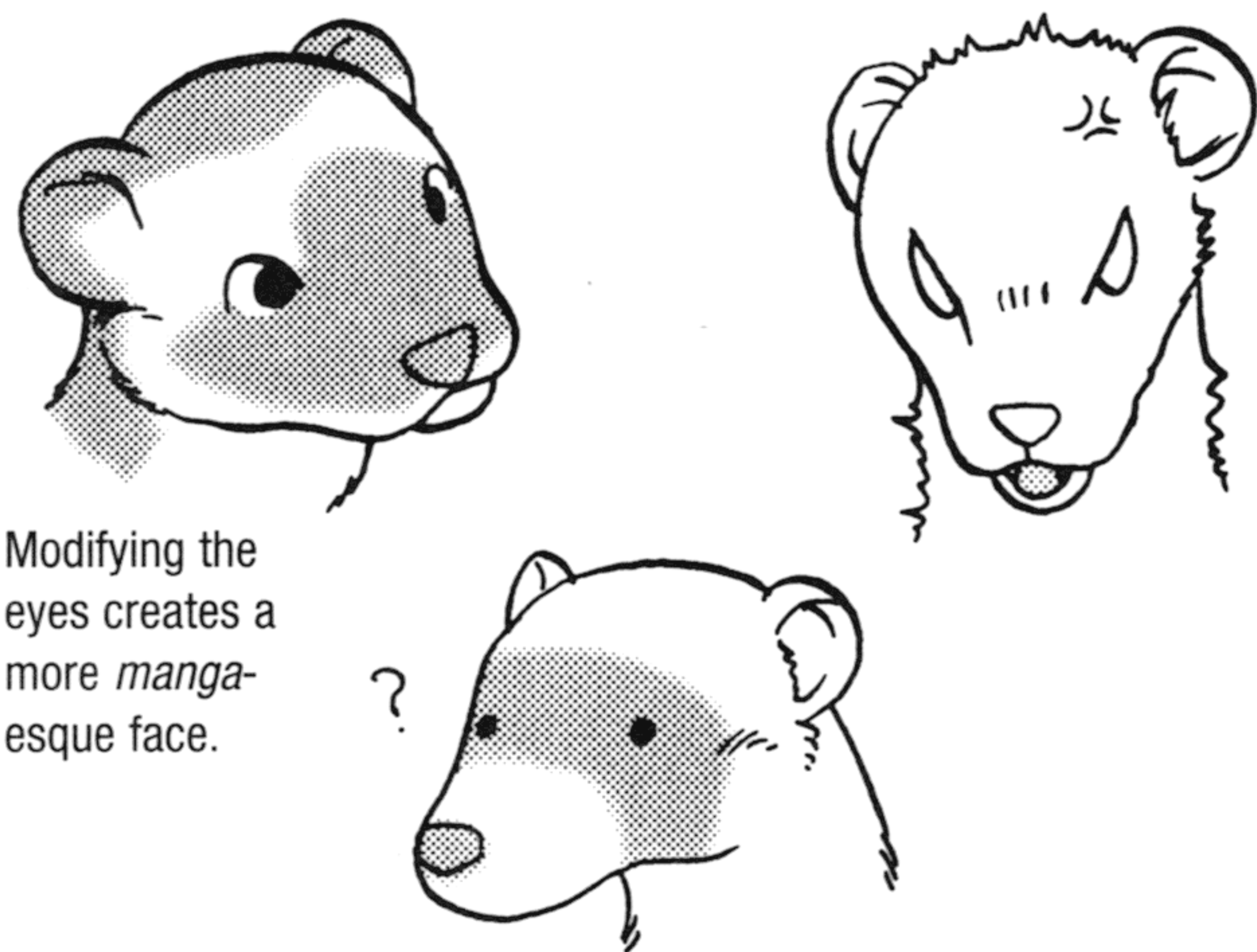
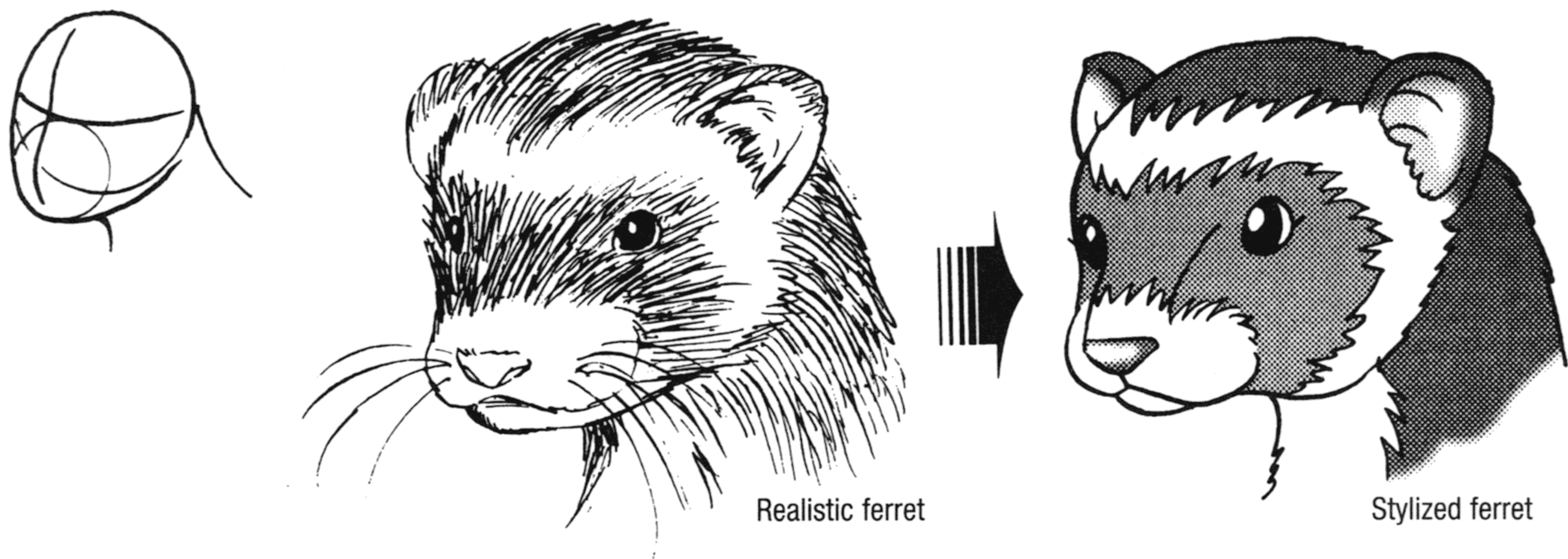
Make the mouth, eyes, and ears larger for a hamster.



For the rabbit, make the mouth large and add bunny ears.



Stylizing to Create Facial Expressions



You may give whichever sort of eyes you prefer to any animal.

Assorted Expressions

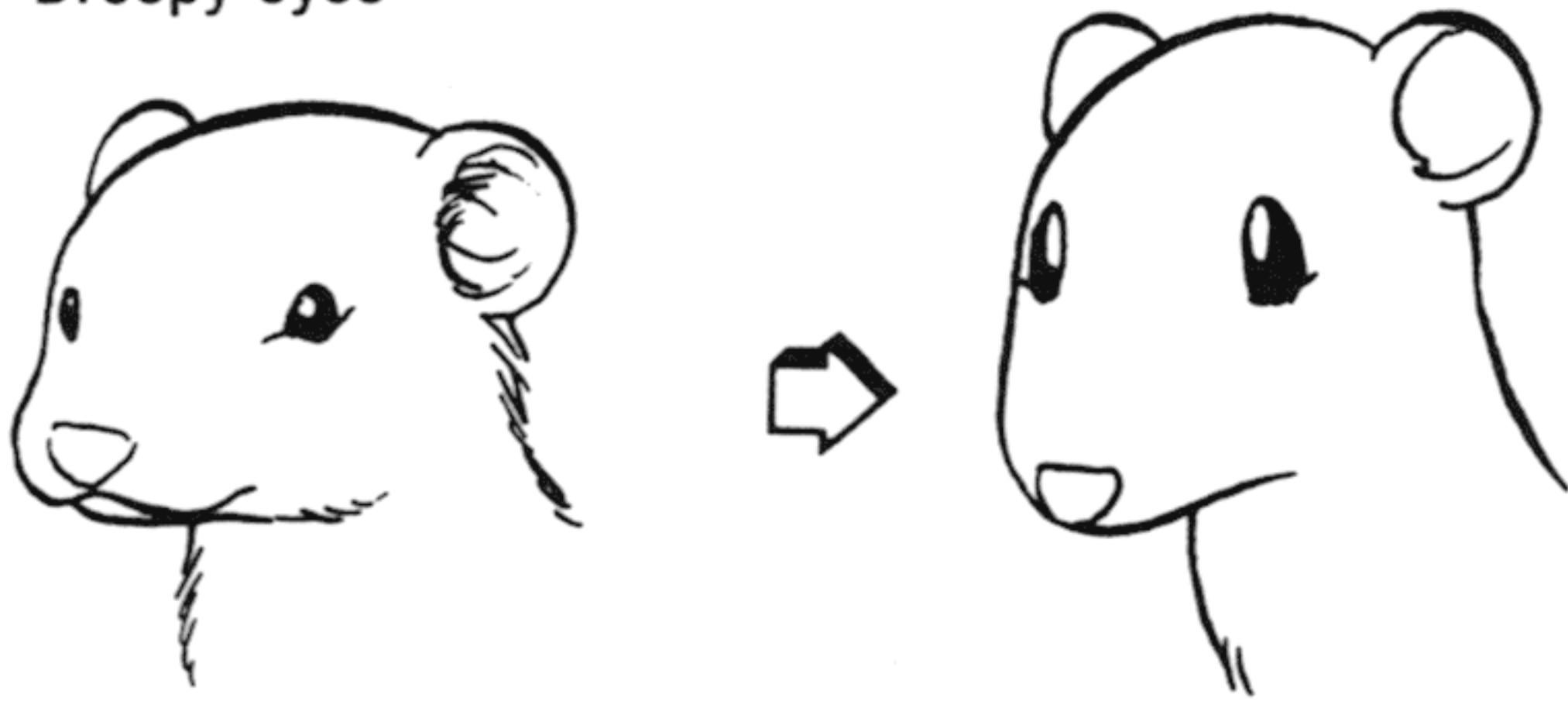
Chipper	Angry
Grumbling	Sleepy
Worried	Prim
Forlorn	Overjoyed



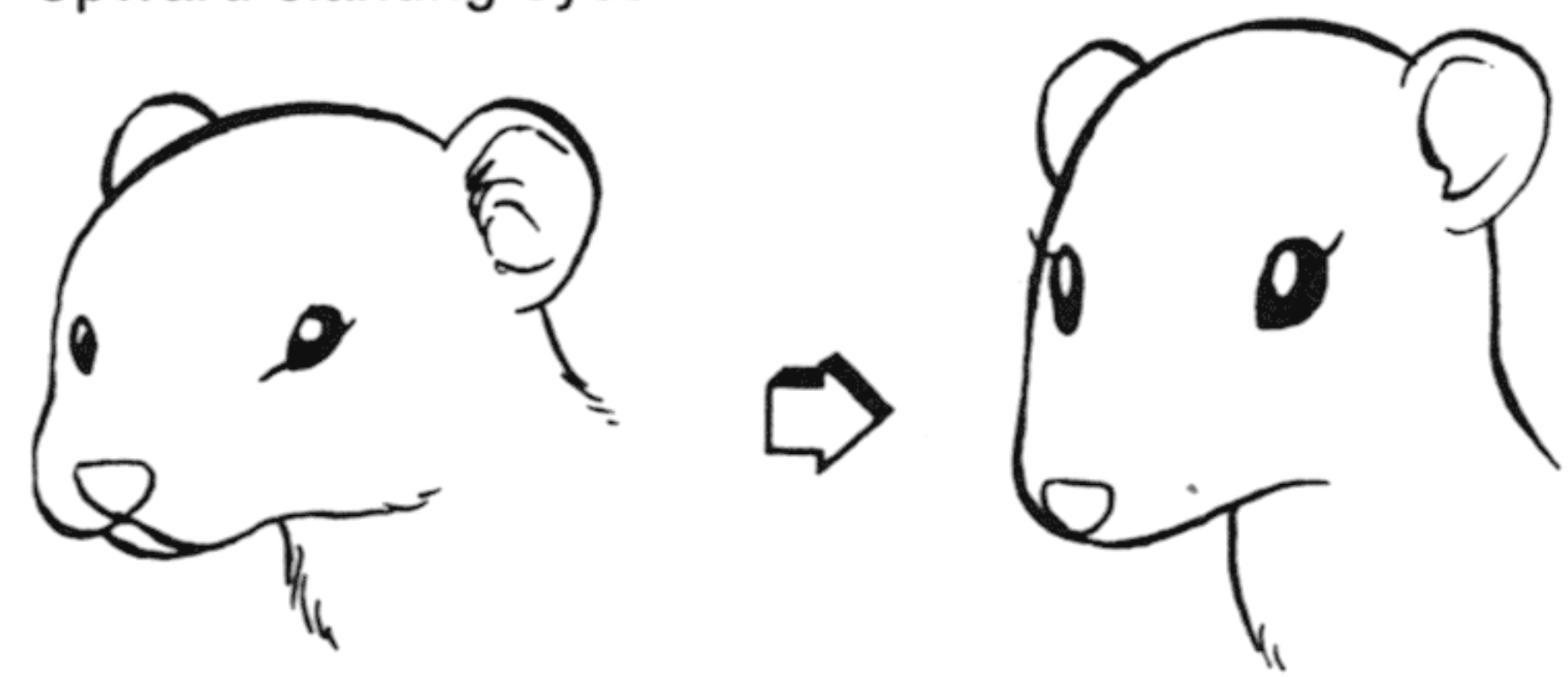
Maximizing Distinguishing Features

An effective way to stylize an animal is to take full advantage of each pet or animal's individual physical differences and distinguishing personality traits.

Droopy eyes



Upward slanting eyes



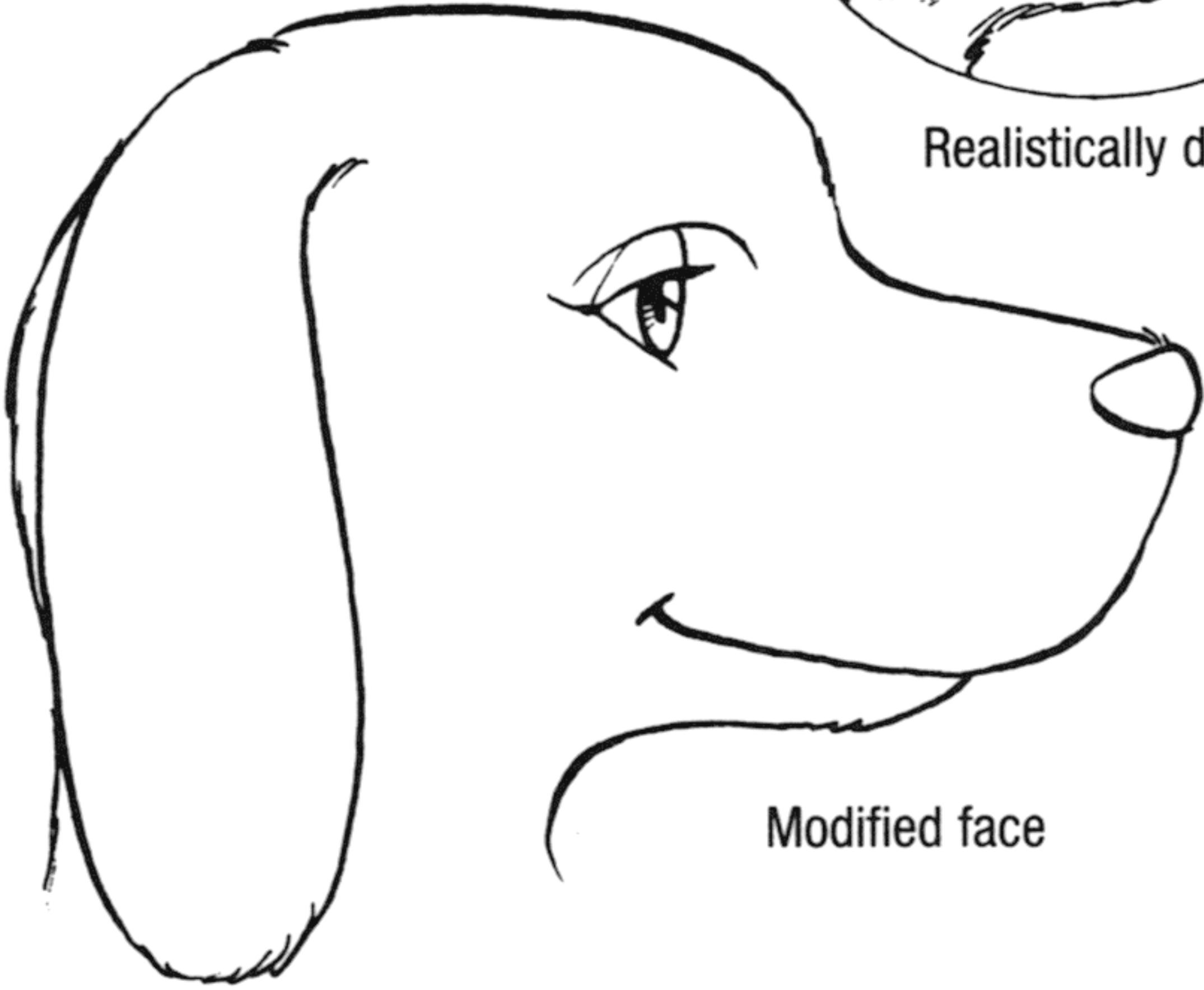
Enlarging the irises/pupils will make even upward slanting eyes look cute.

Tips in Making Animal Cute

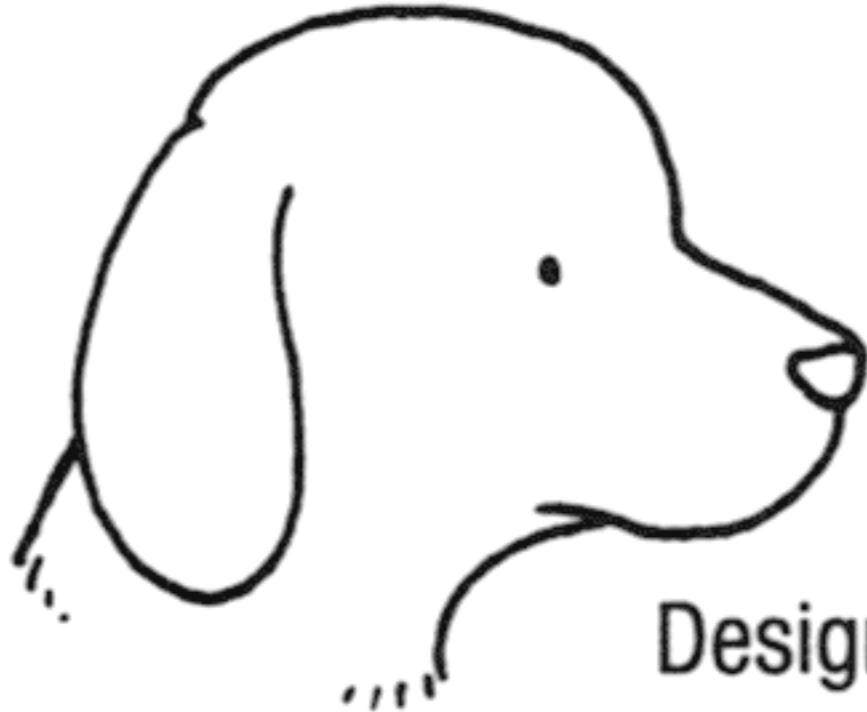
- Draw the eyes bigger than in real life.
- Make the irises/pupils big.
- Add eyelashes.



Realistically drawn face



Modified face



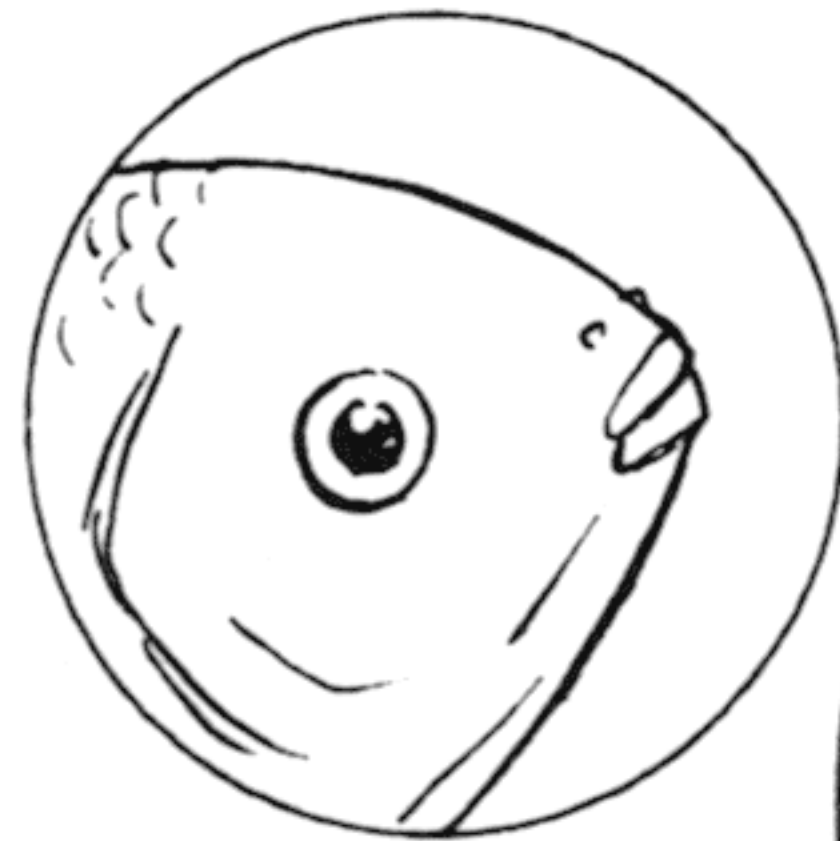
Design face

Sometimes the face can be made to look cute by using dots for the eyes.

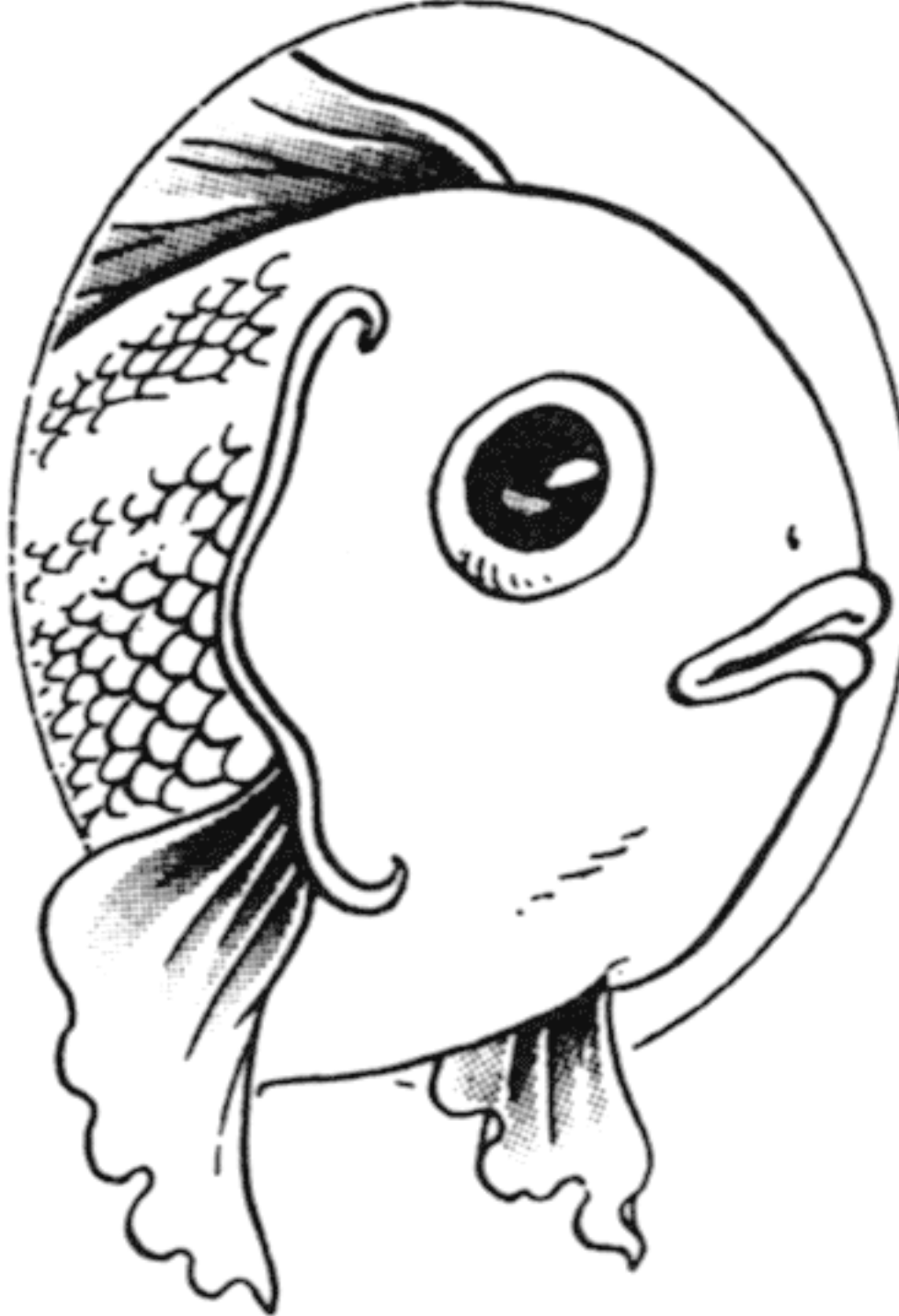
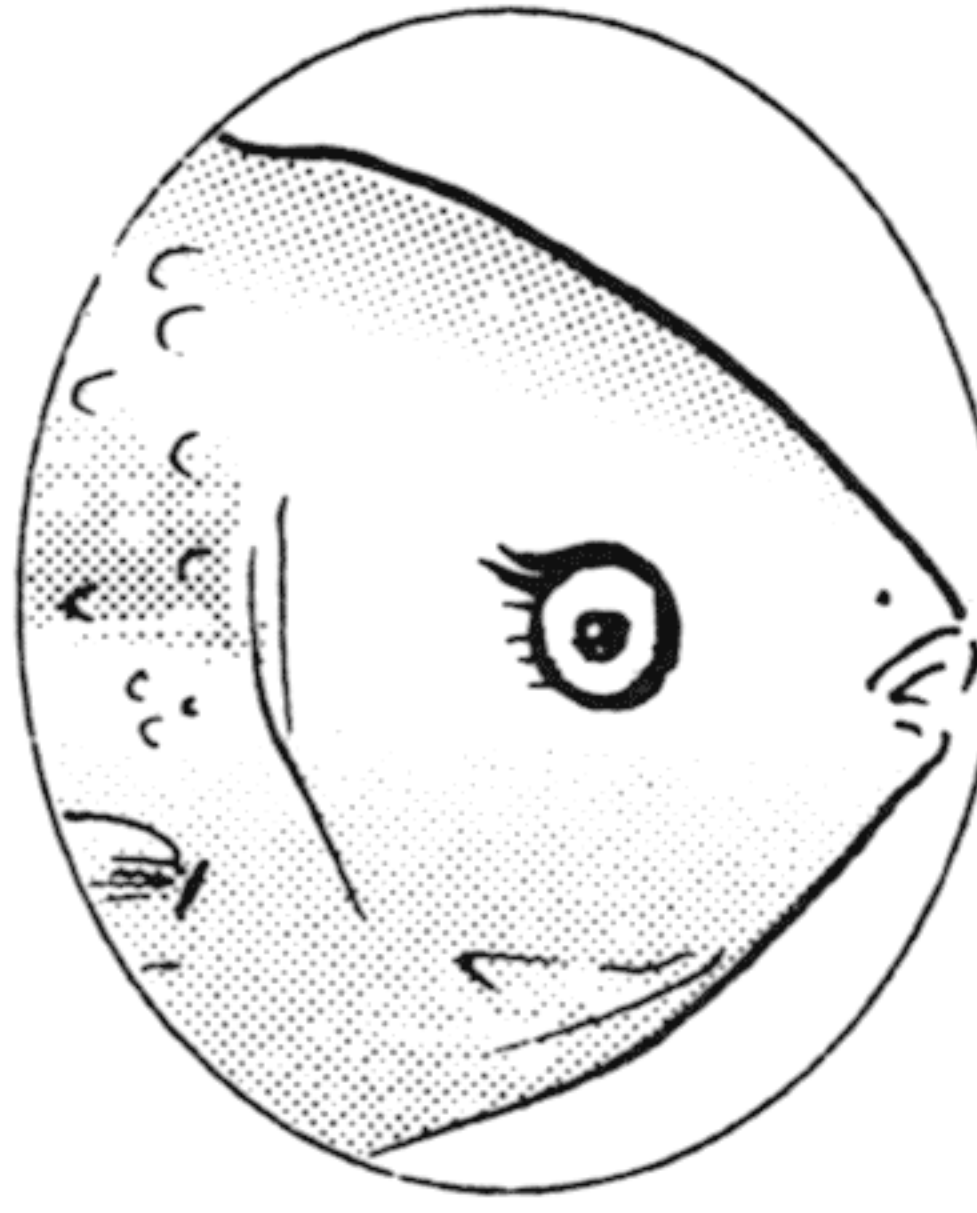
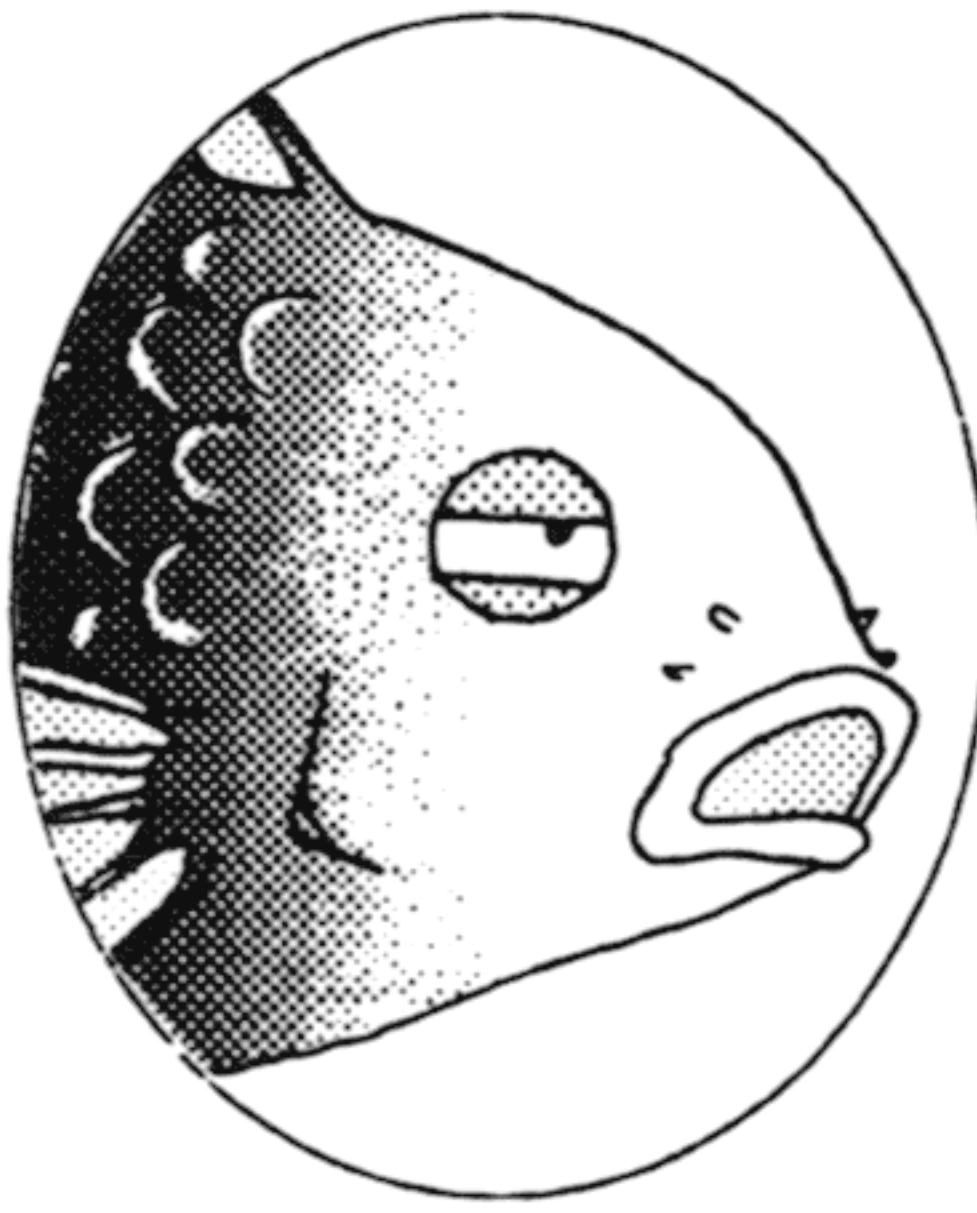
Assorted Eyes



On a real cat from the side, the eye would appear to be a clear crystal, and the iris and pupil would scarcely be visible.



The common fish has neither eyelids nor eyelashes.

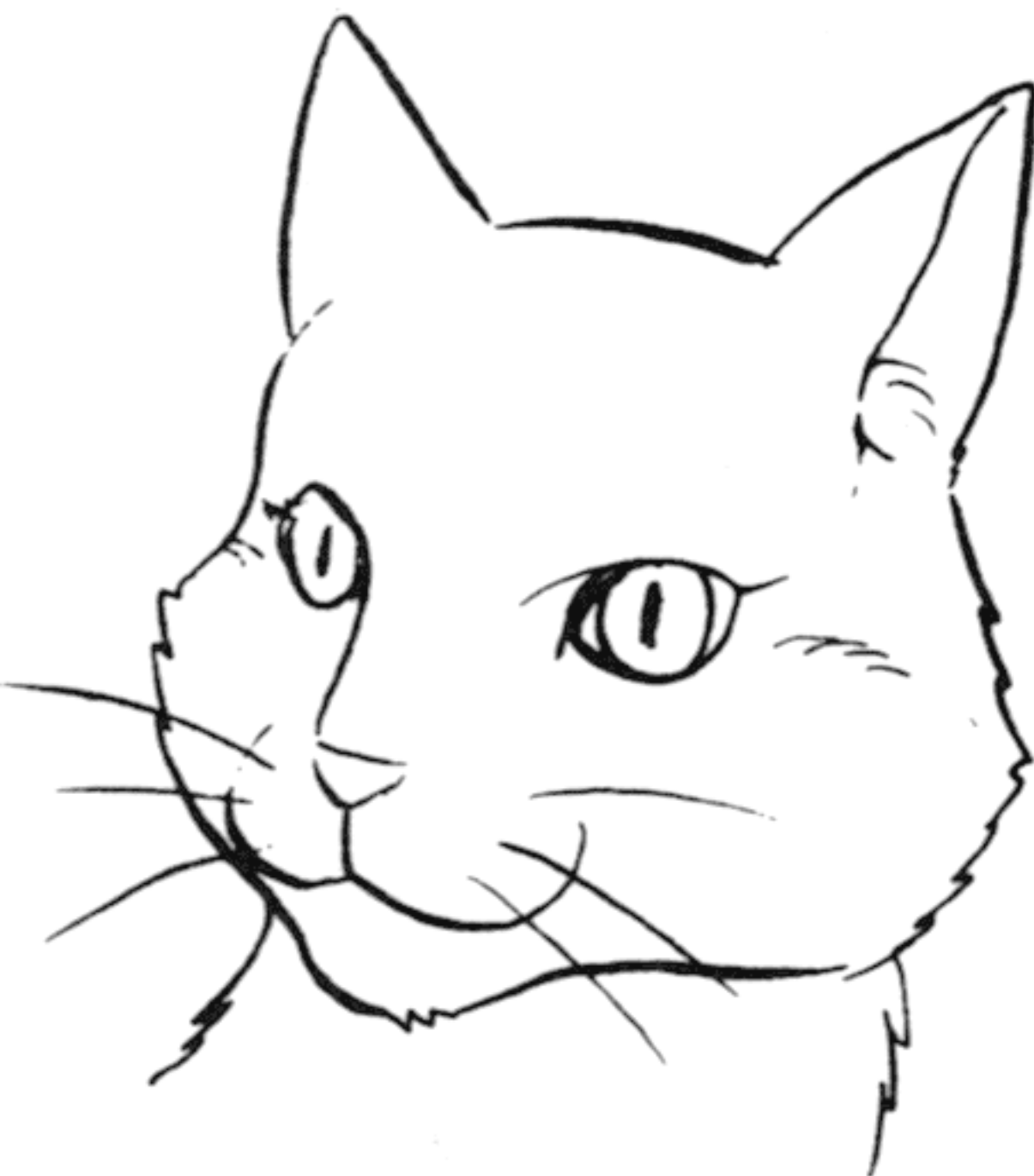




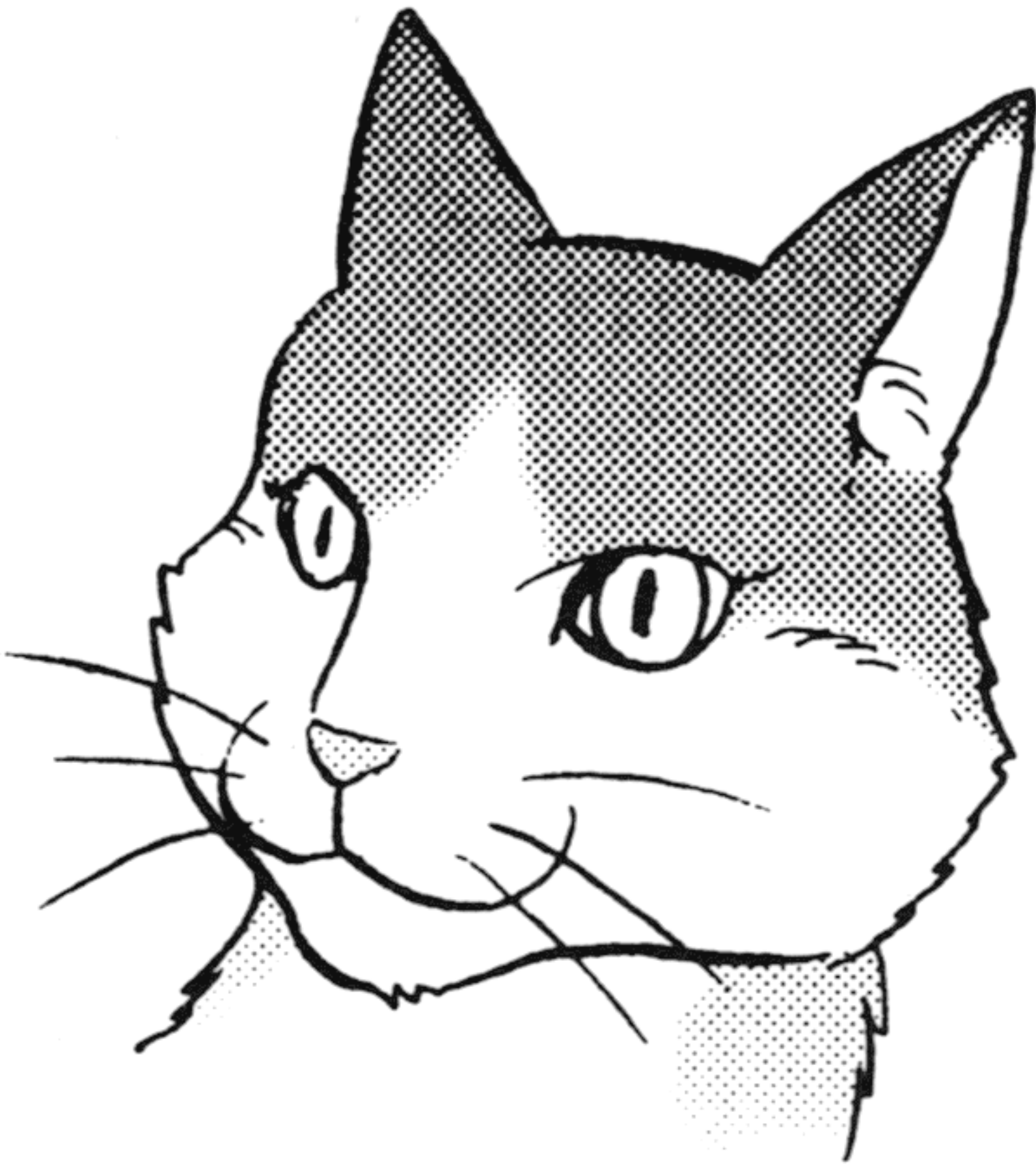
# Suggesting Coats and Coat Patterns: Animal Colors

If you are unable to add color, then use hatching or tone to suggest fur color.

## Face



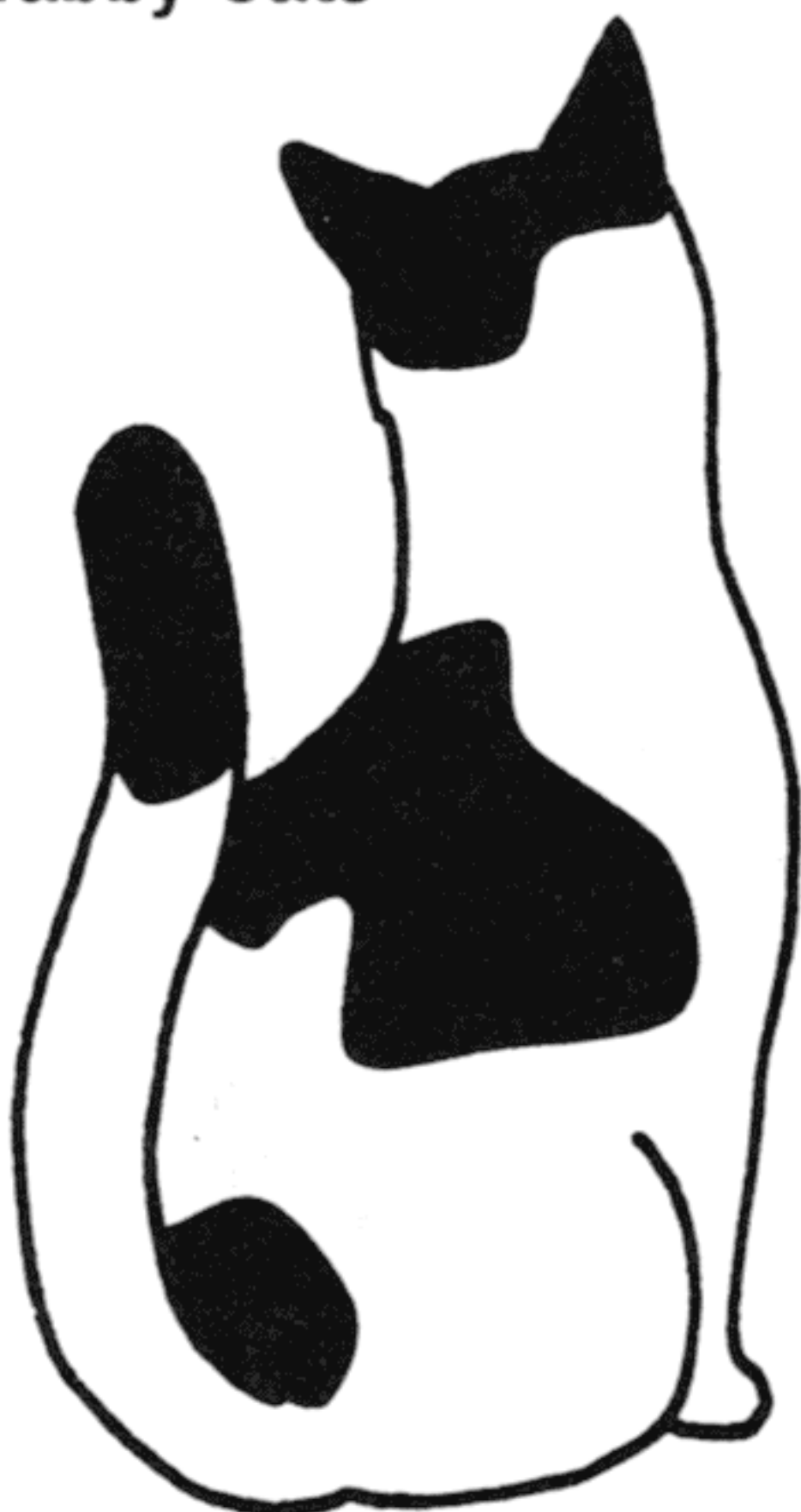
Realistic cat rendered with hatching



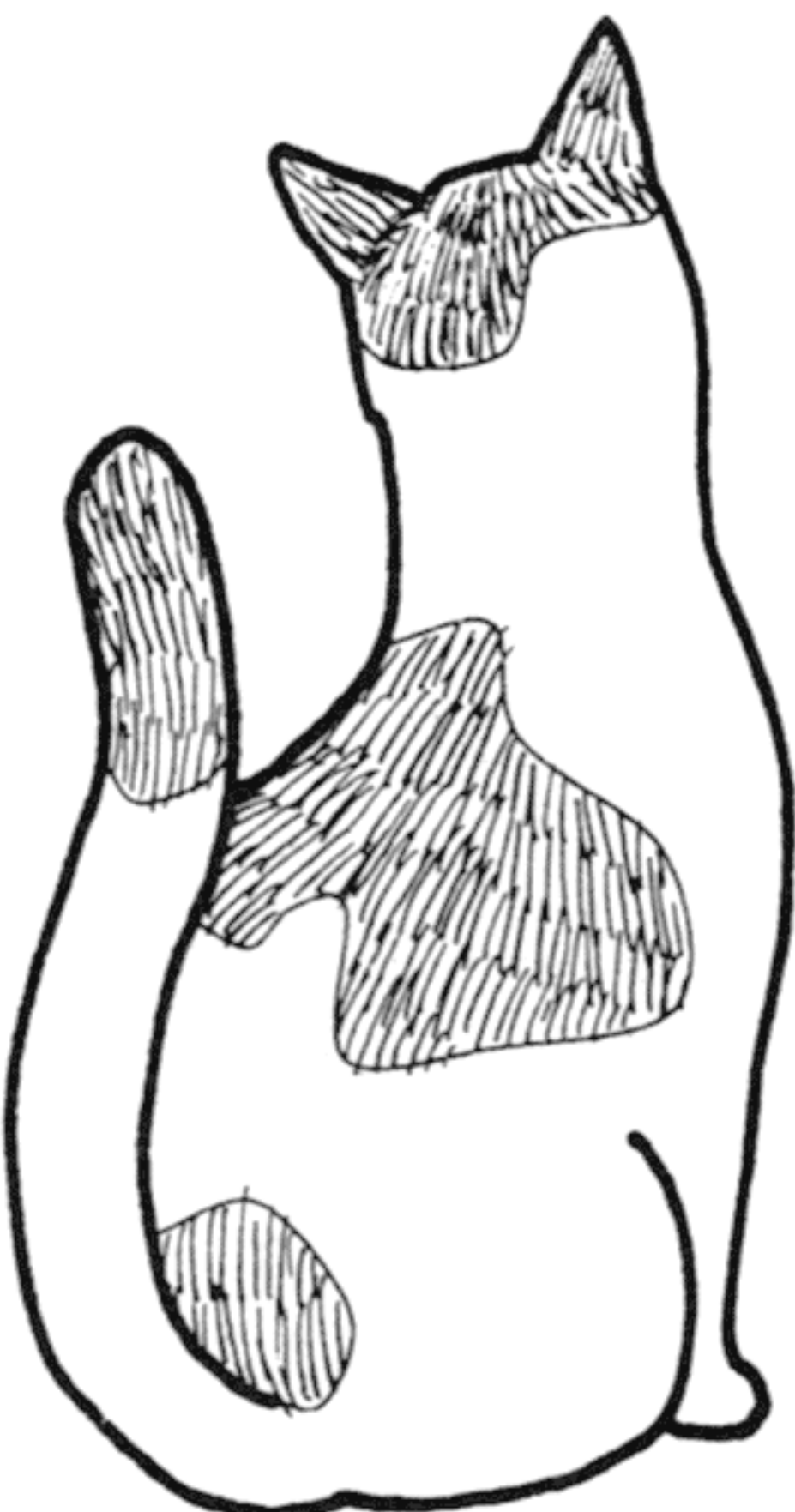
Cat rendered with tone

## Body

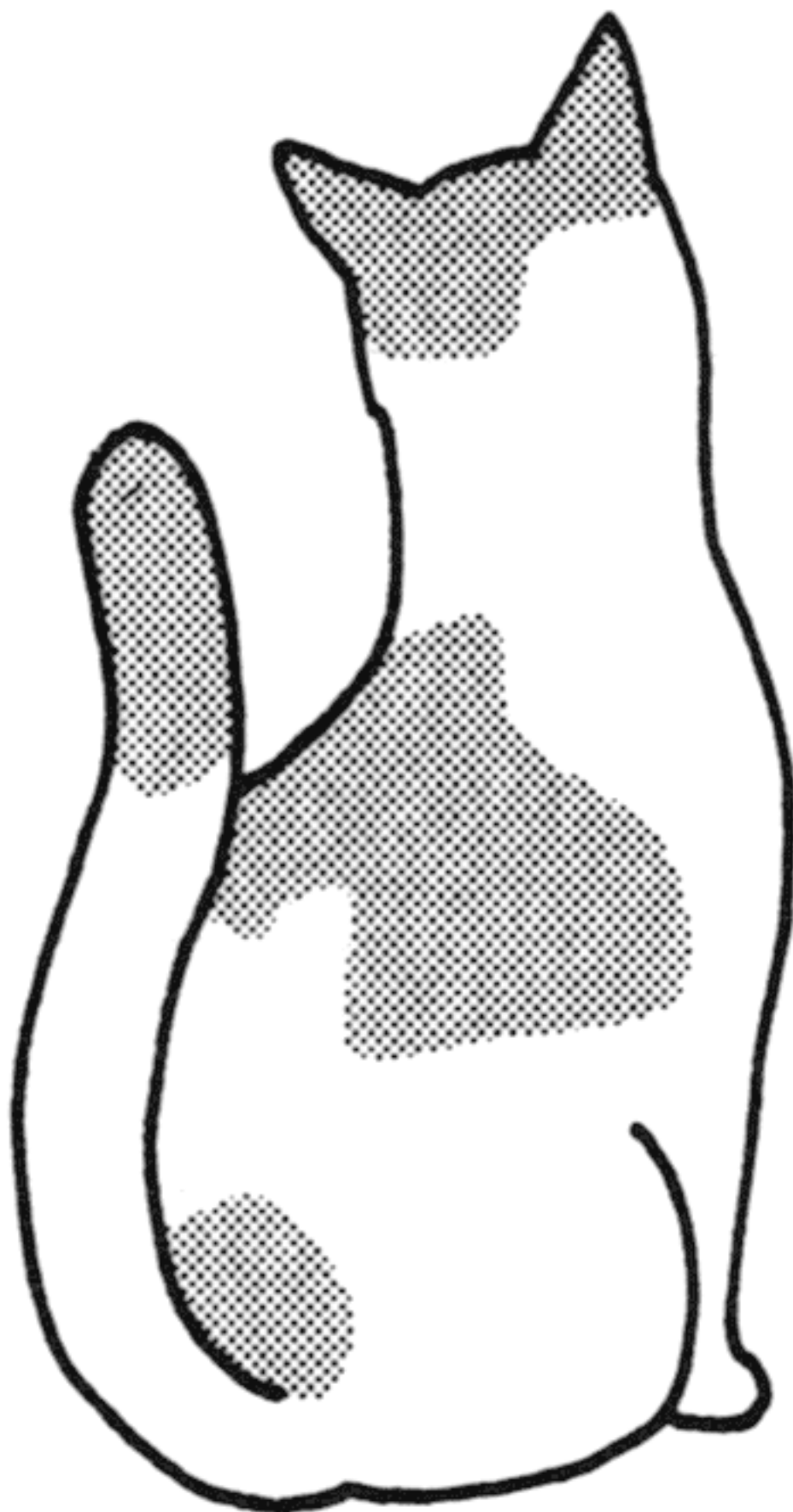
### Tabby Cats



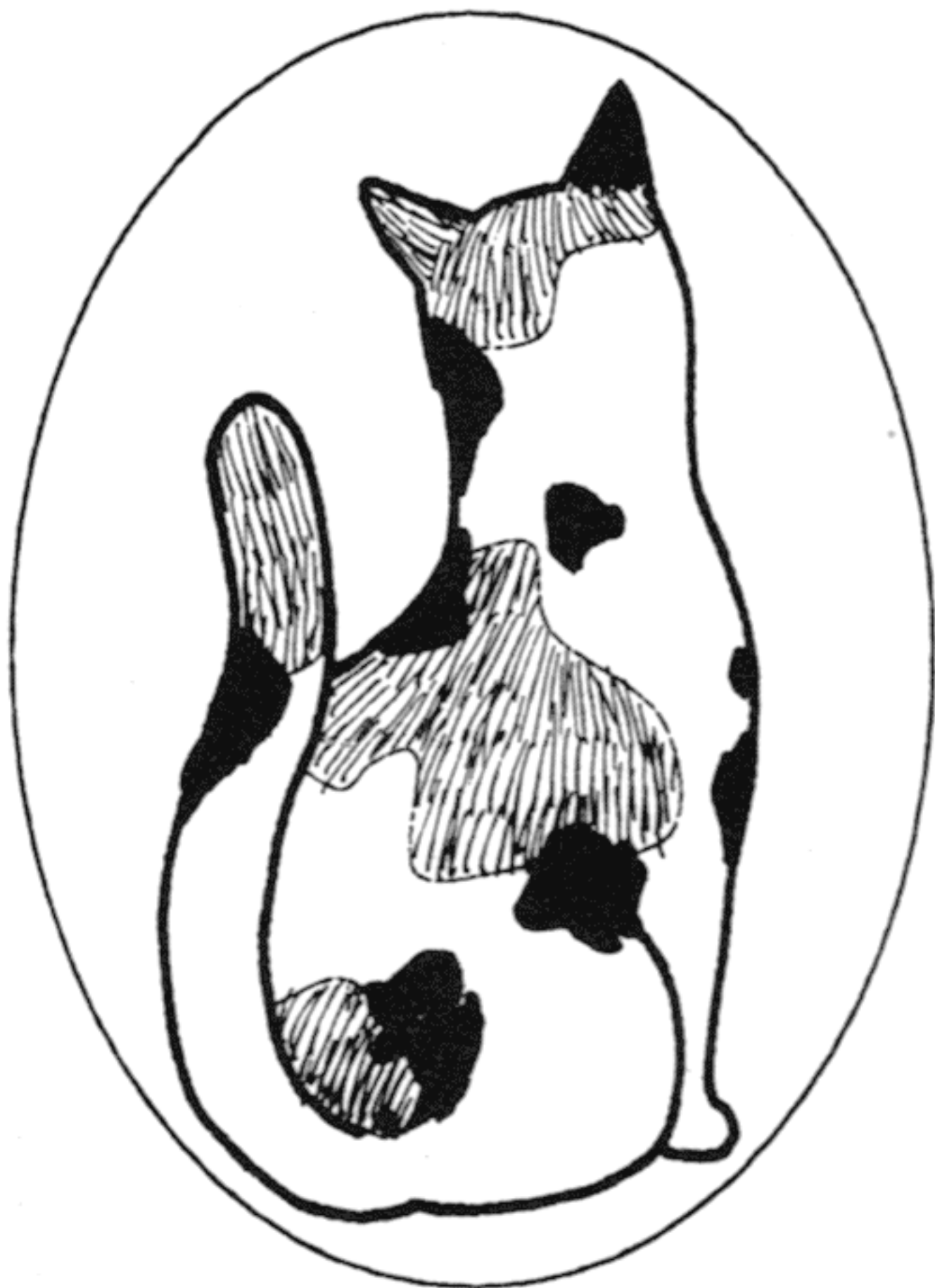
Inked with a felt-tip pen



Hatching added

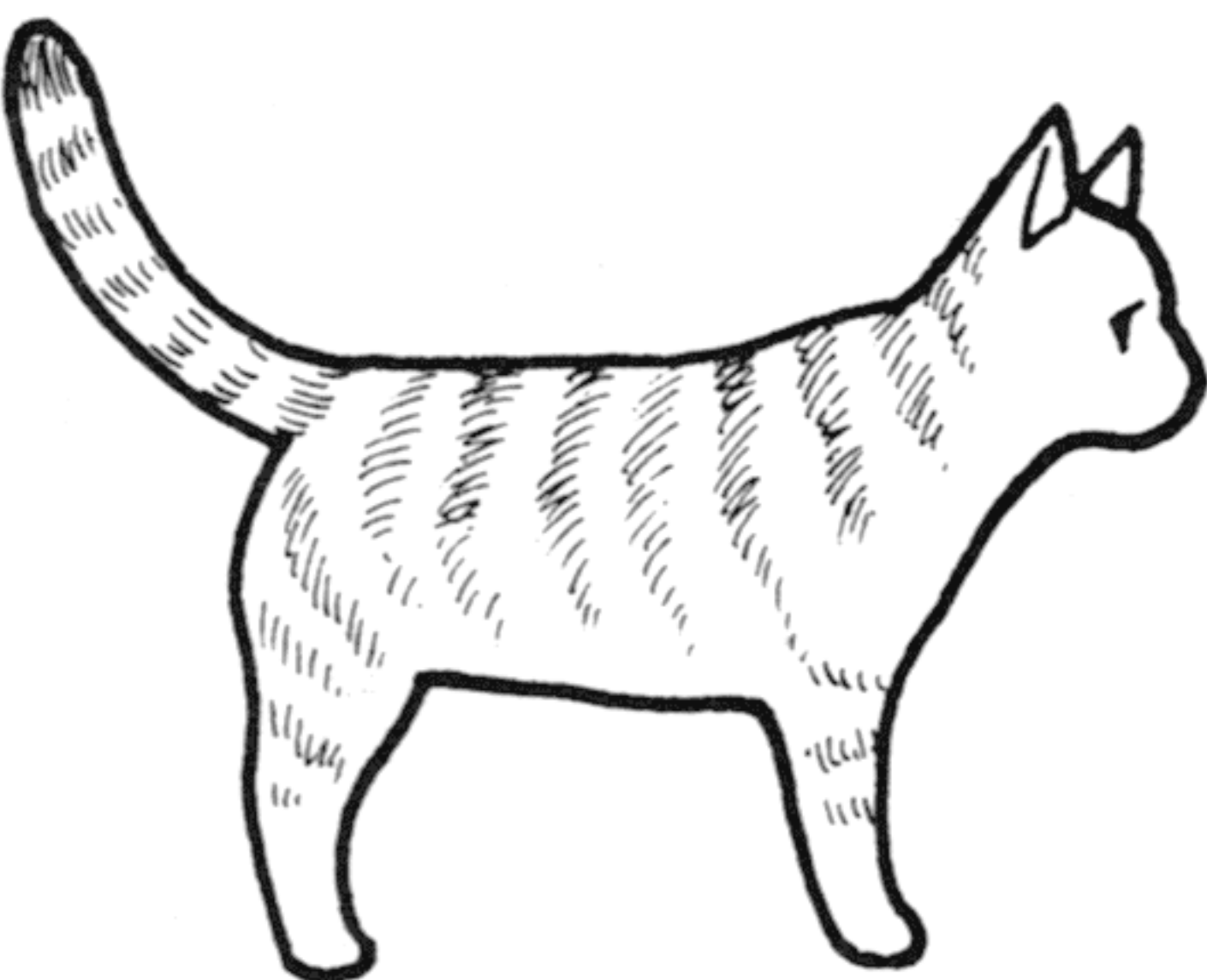


Tone added

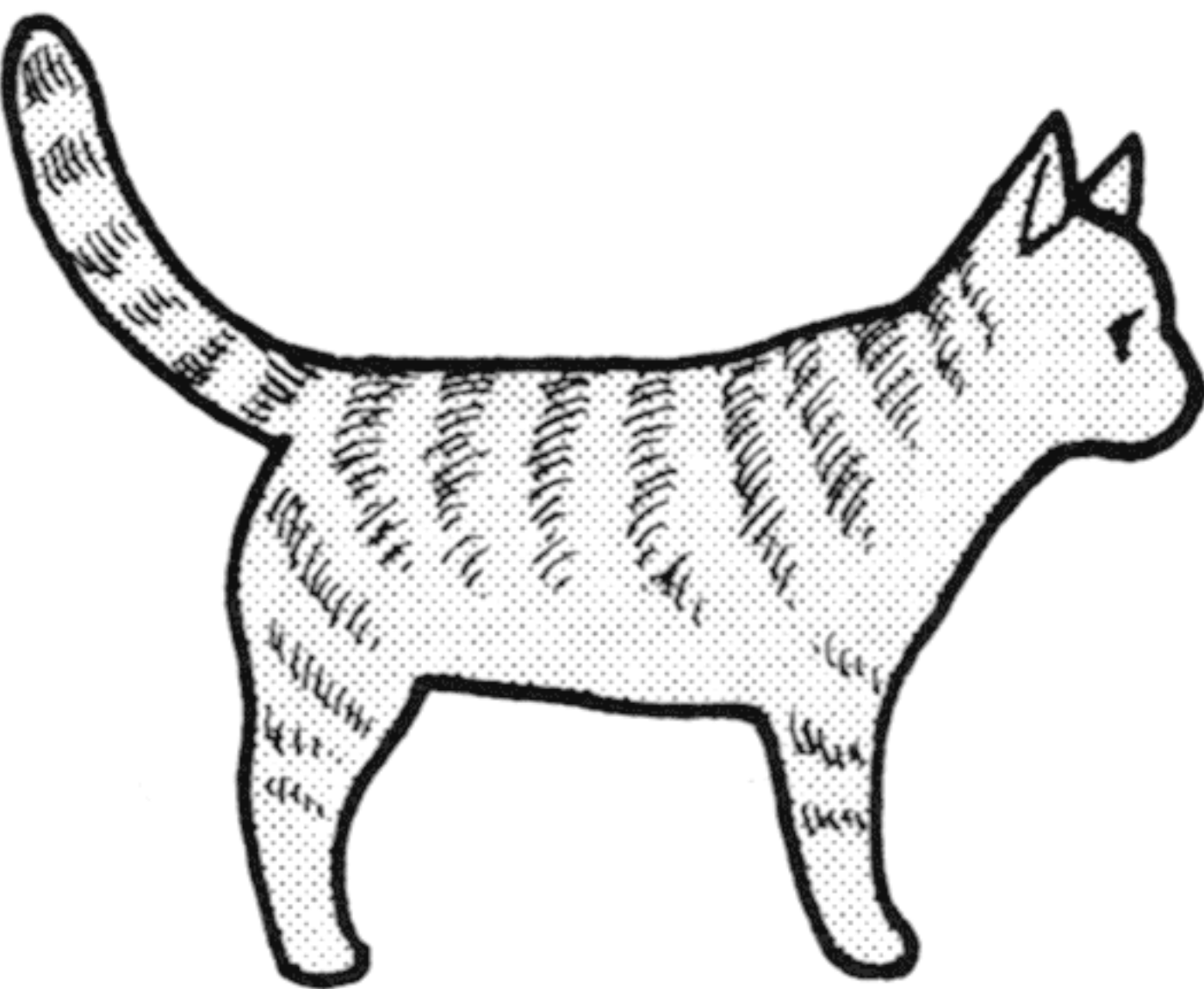


Adding black patches to red mottling creates a calico cat

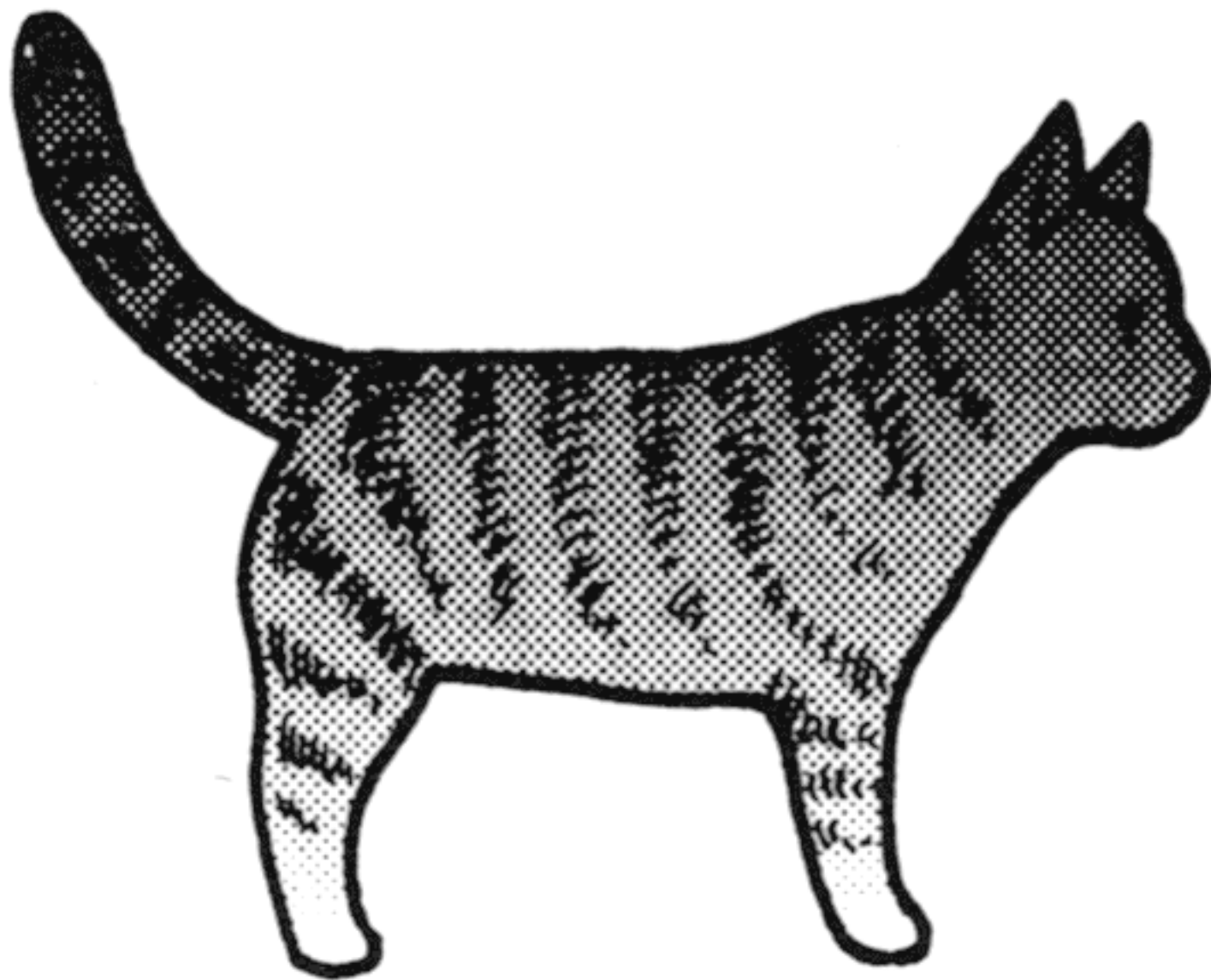
### Striped Cats



Hatching added



Adding a light tone creates an orange striped kitty



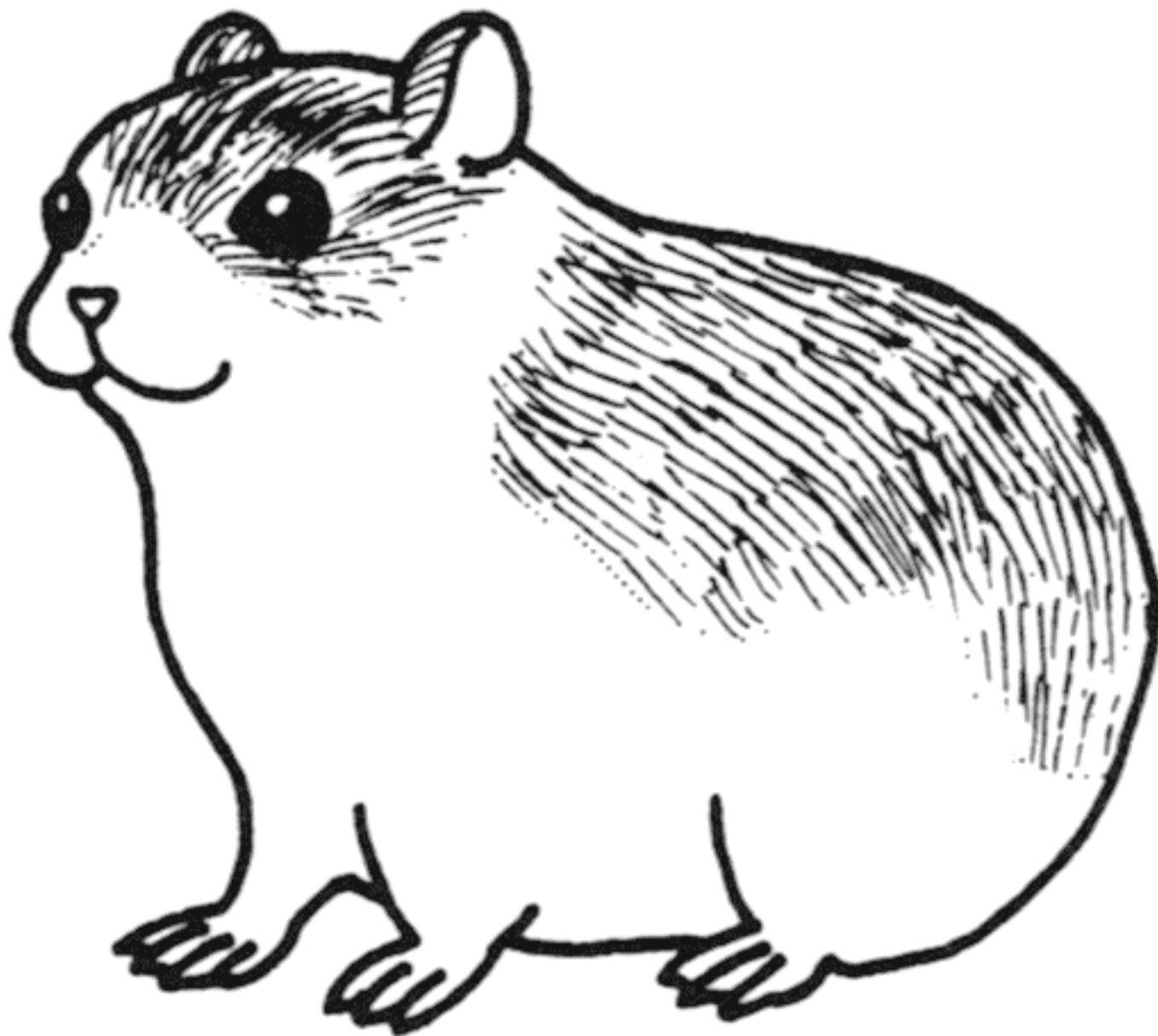
Adding gradation tone creates a kitty with black stripes on grey



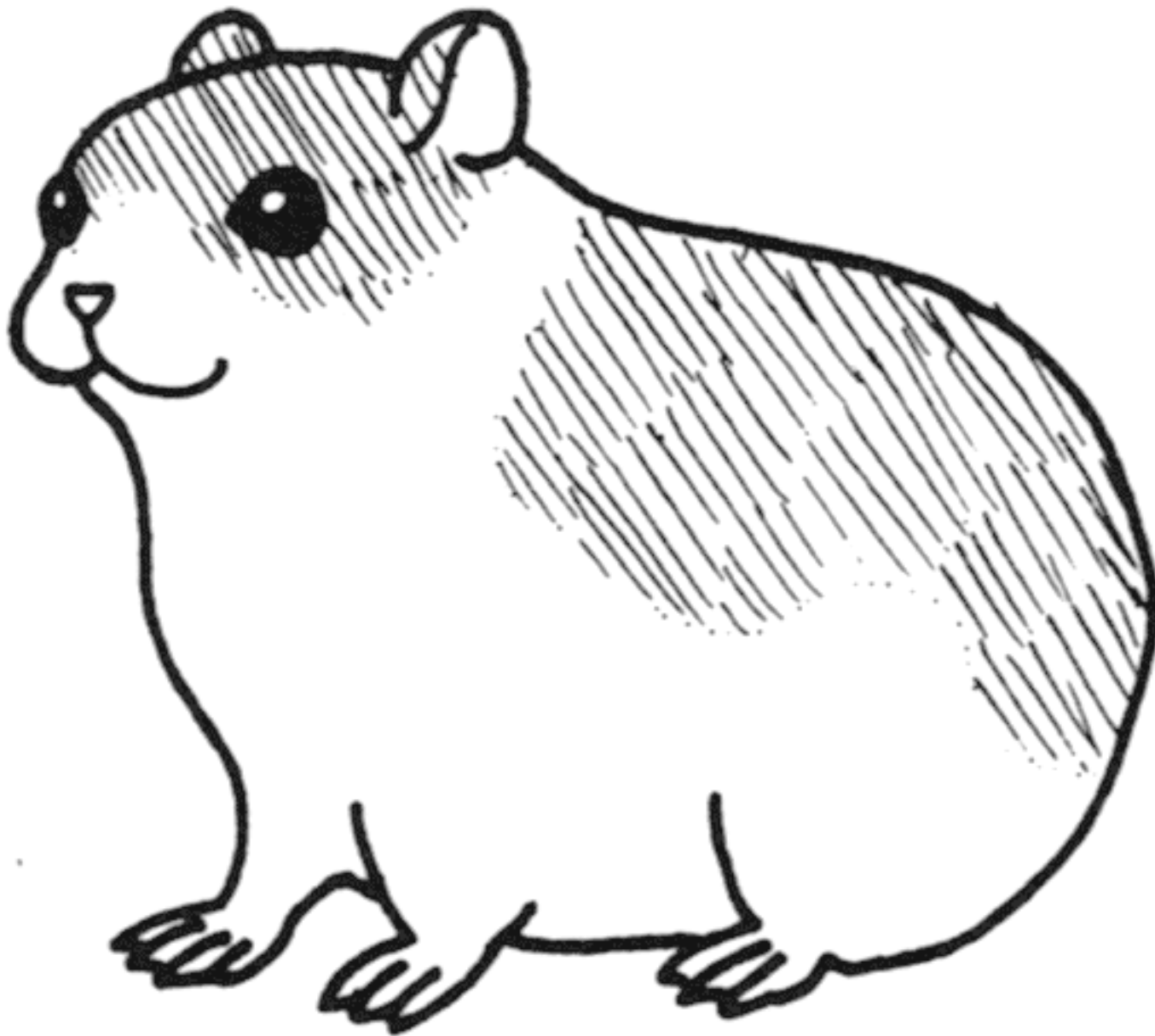
Sample Drawing: Hamster Coat (For a Bi-colored Teddy Bear Hamster)



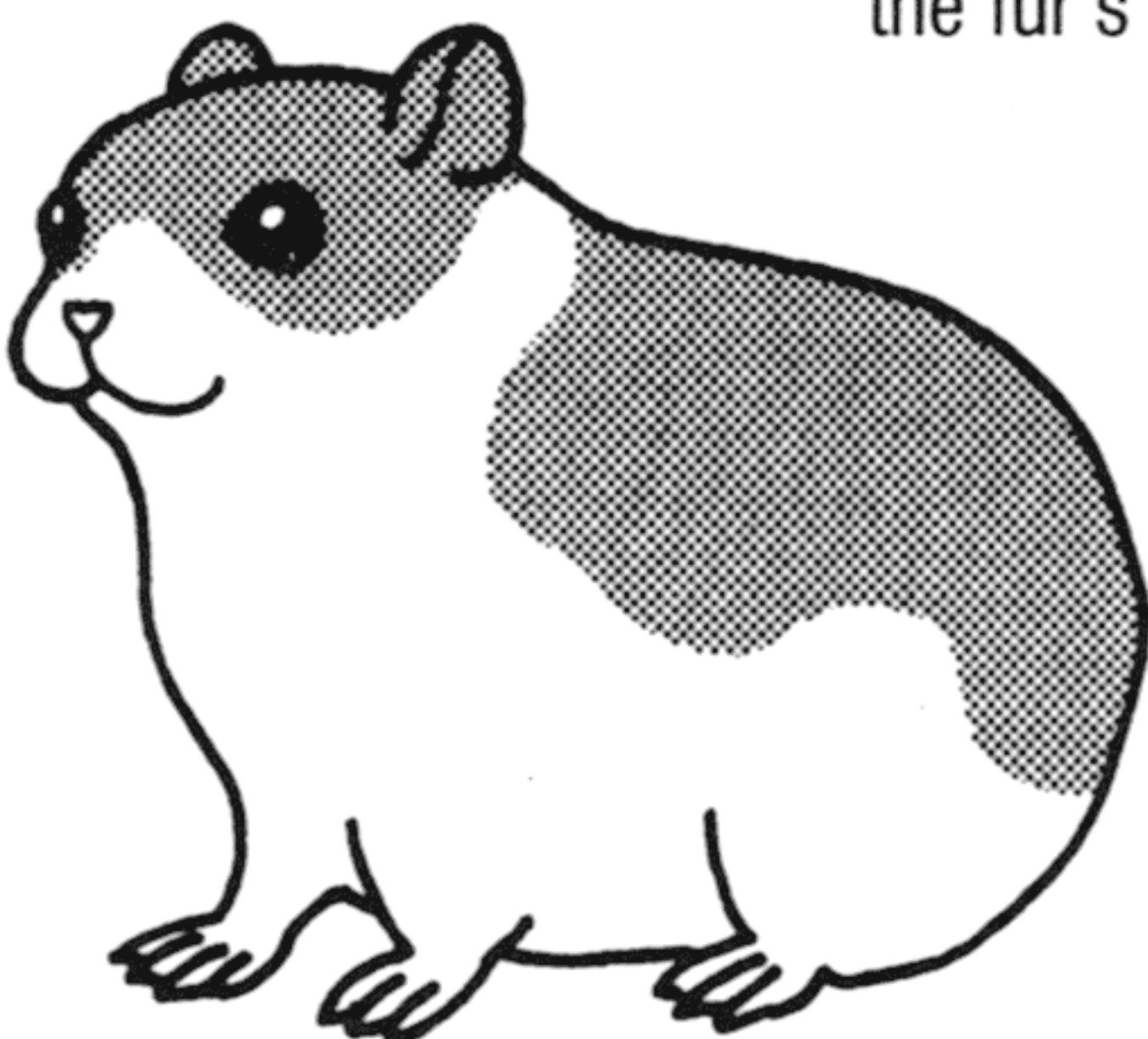
Line drawing



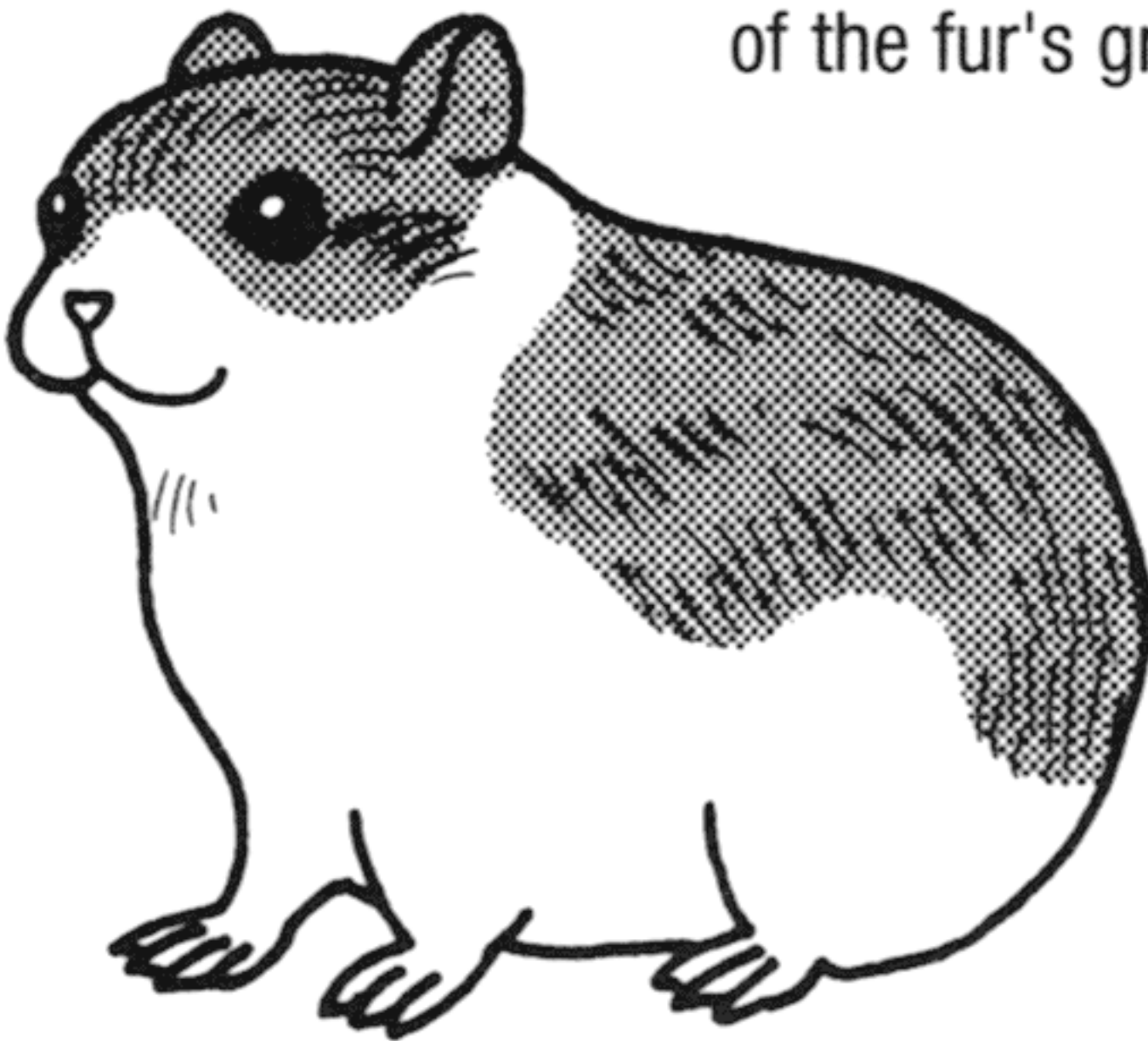
Hatching added to illustrate the fur's growth



Hatching added independent of the fur's growth



Tone added



Both hatching and tone added

Assorted Hamster Coats and Colors



Longhaired: Applying hand-drawn strokes creates the look of long hair.



Tri-colored (calico)



Bi-colored (tortoise shell)



Grey



Bi-color (Colored face)



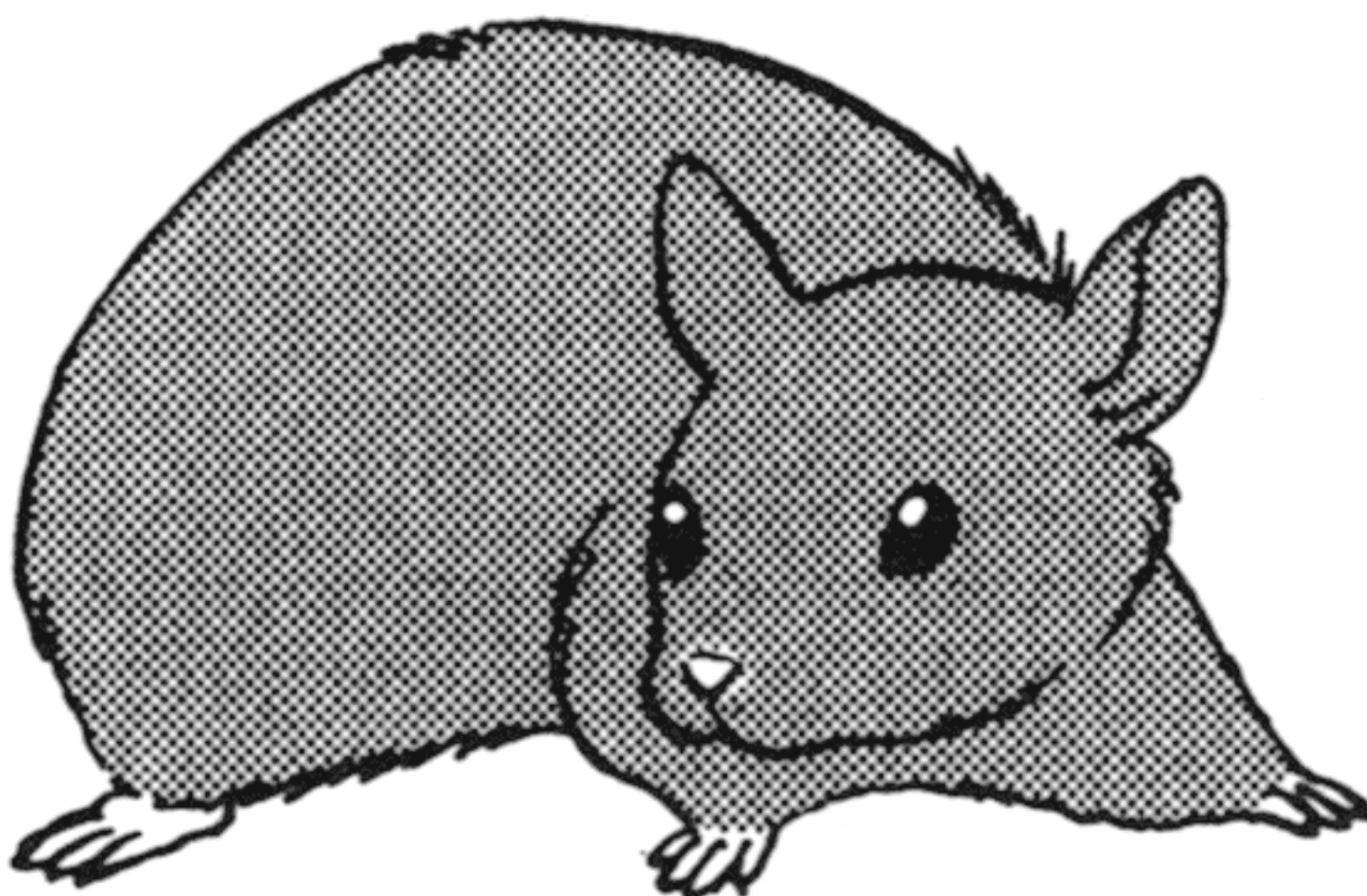
Panda



Ear of a cream teddy bear



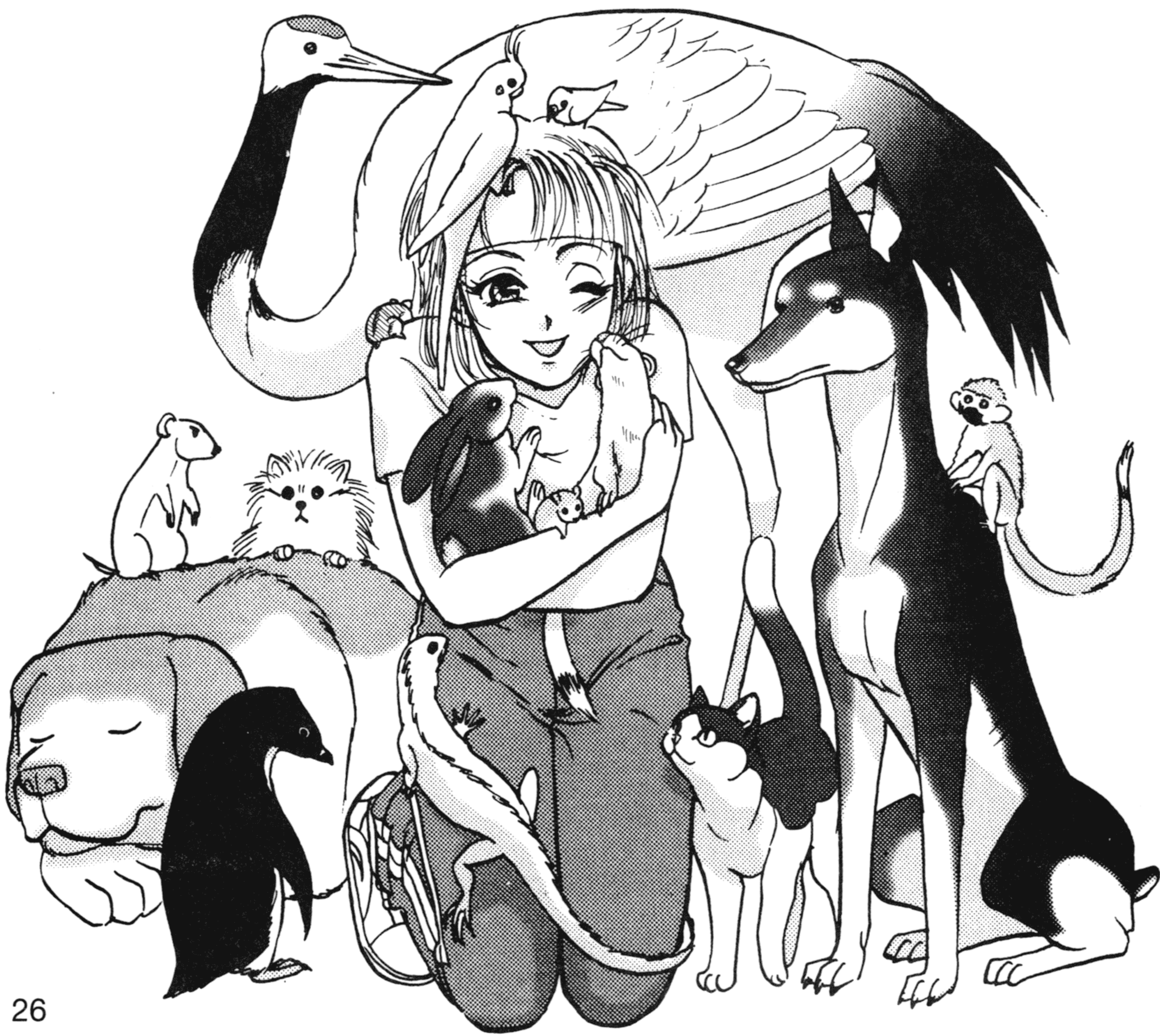
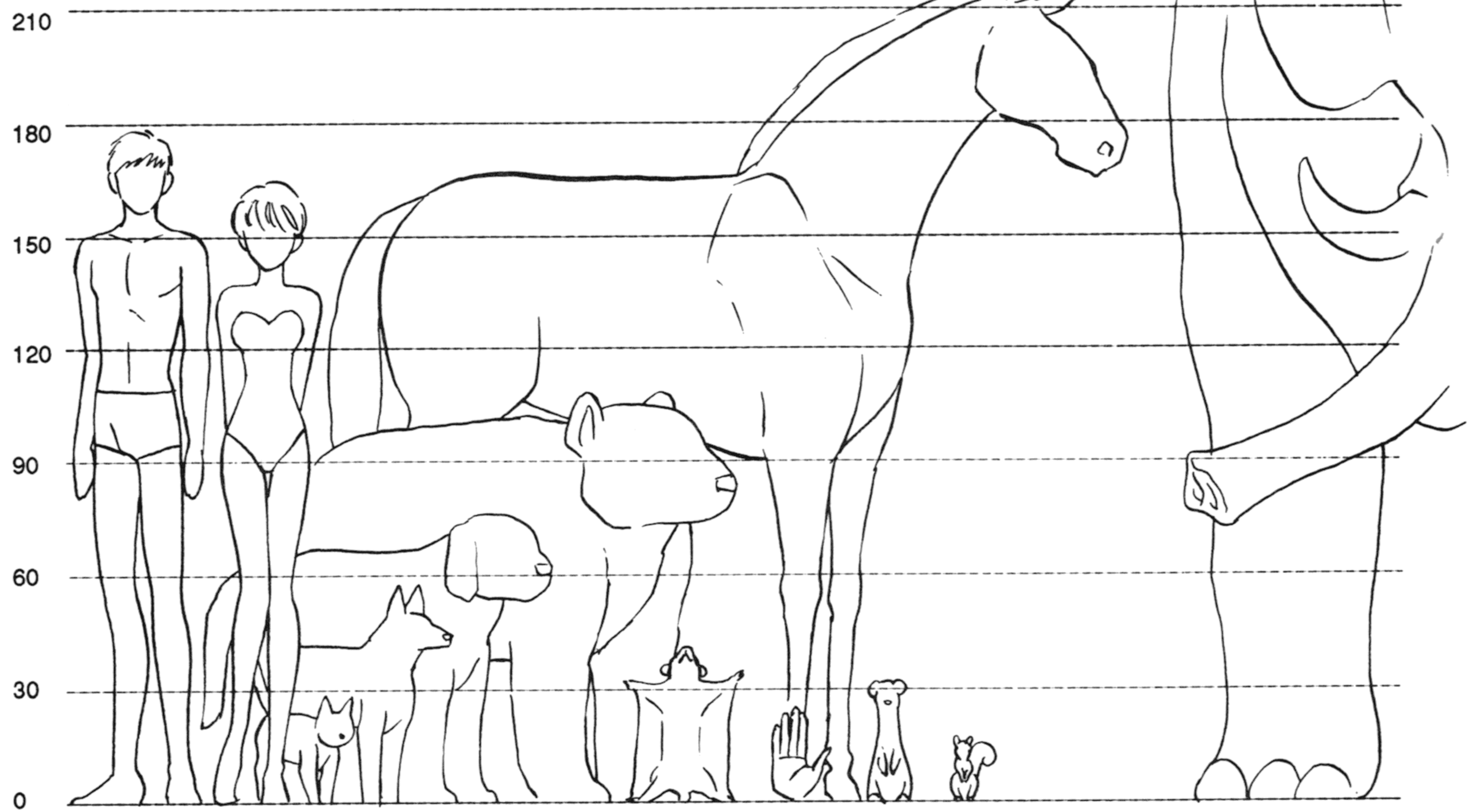
Beige



Golden: Use a darker tone than you would for a cream teddy bear's ear.



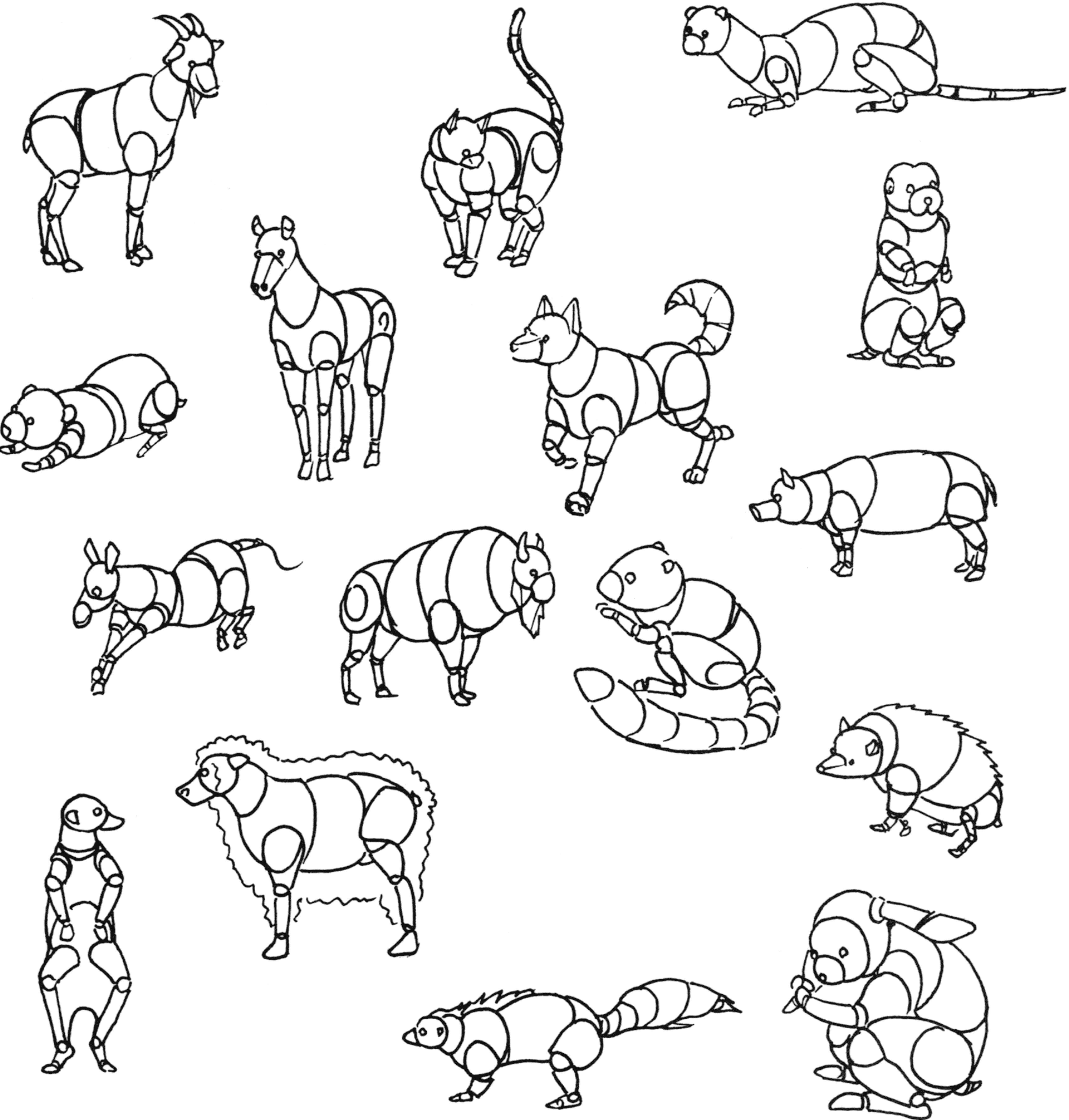
Sizing Up: Animals vs. People





# Chapter 2

## Pets and Other Familiar Animals



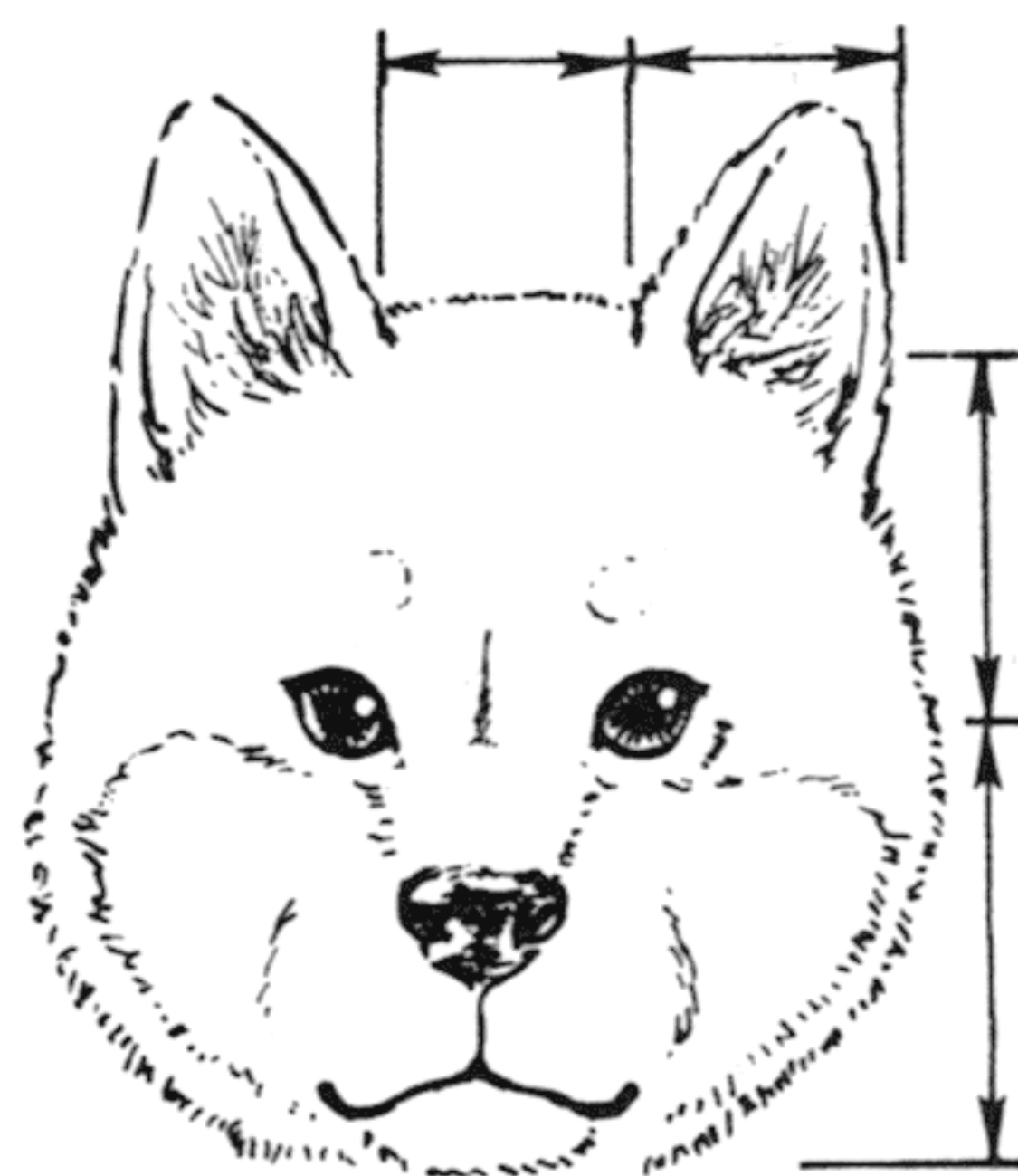


## Dogs

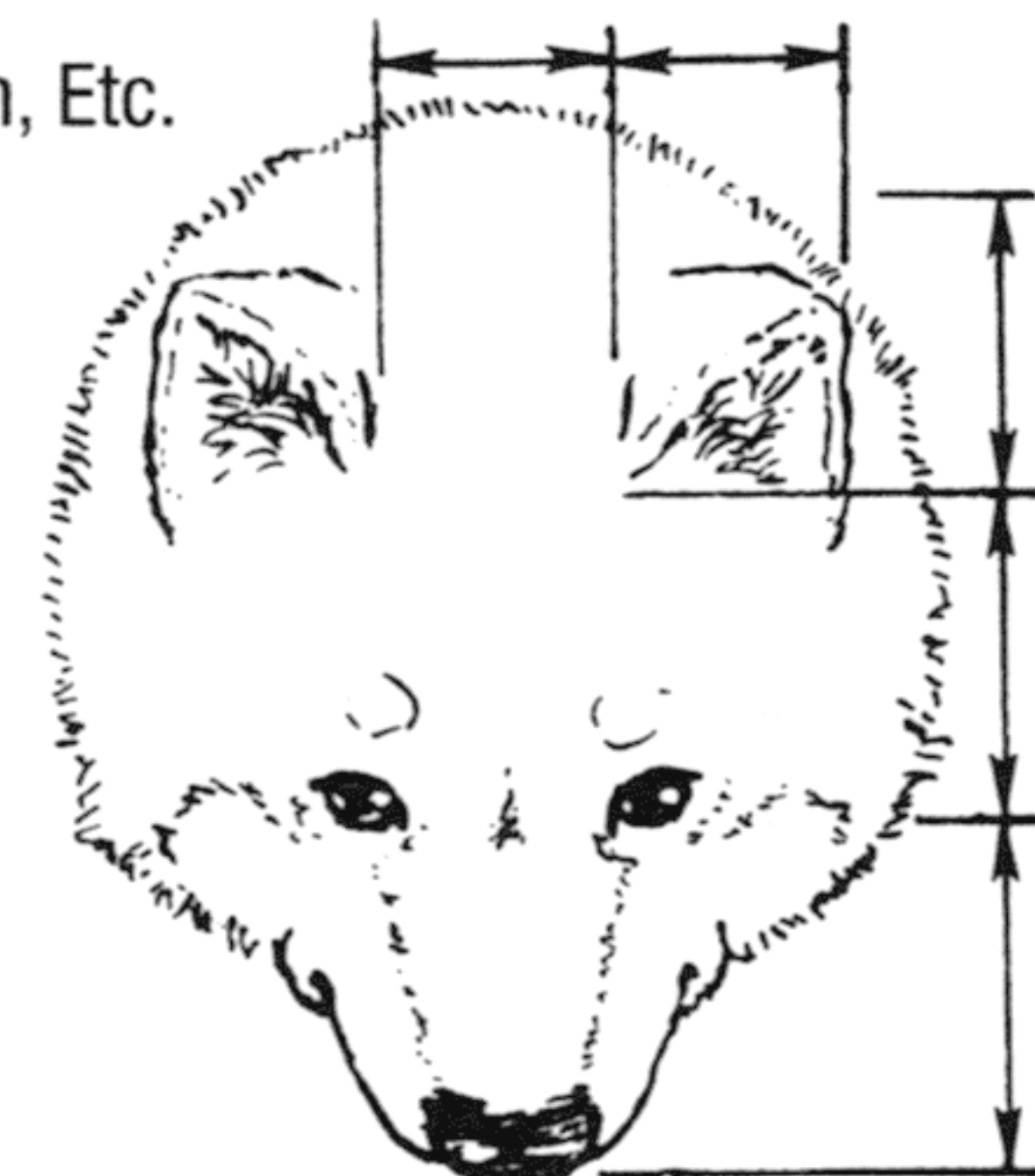
When drawing, give consideration to the following three points:

- 1) Are the ears pointed or floppy?
- 2) Is the muzzle long or short?
- 3) What size is the dog: large, medium, or small?

**Pointed-eared Dogs (Long Muzzle):** Shiba Inu, German Shepard (Alsatian), Pomeranian, Papillion, Etc.



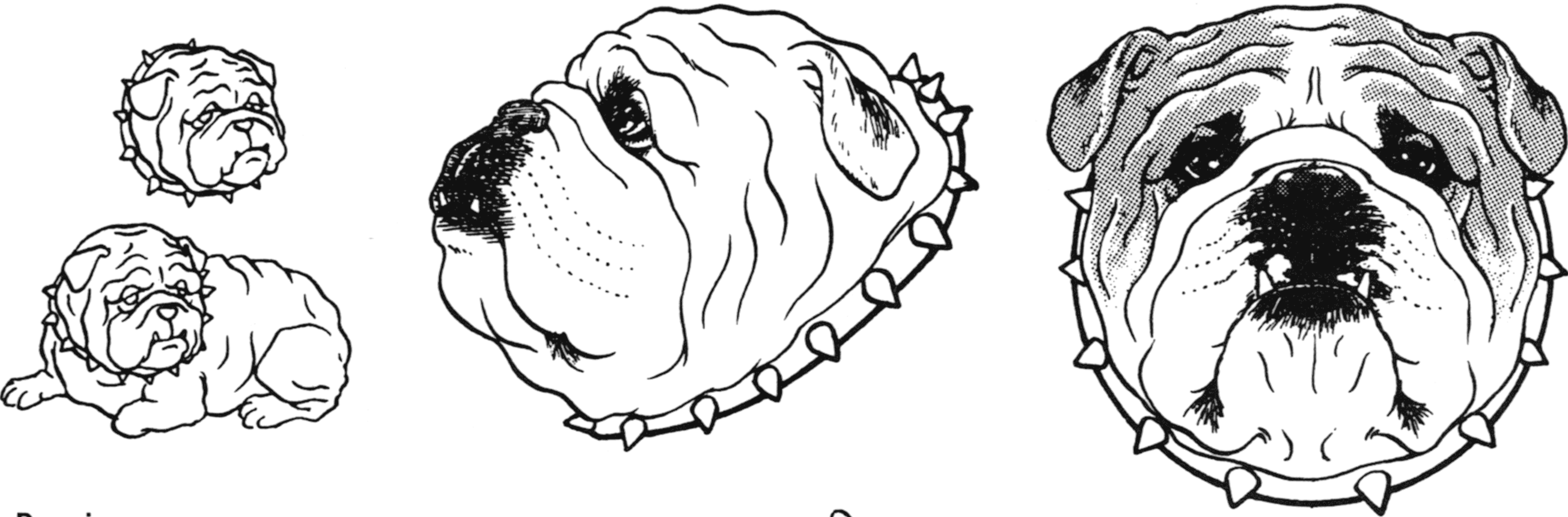
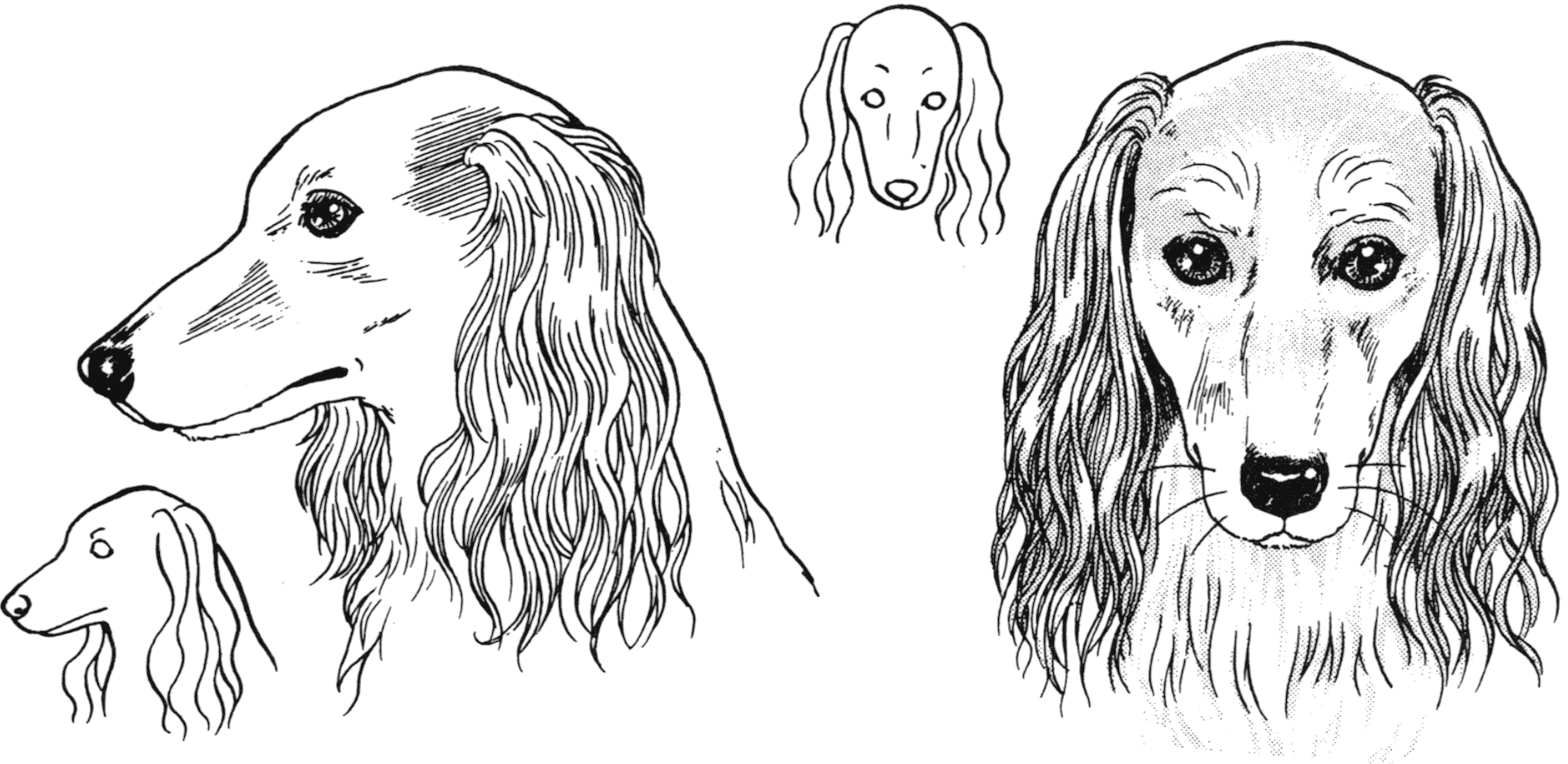
The ears should be spaced slightly further apart than the eyes.



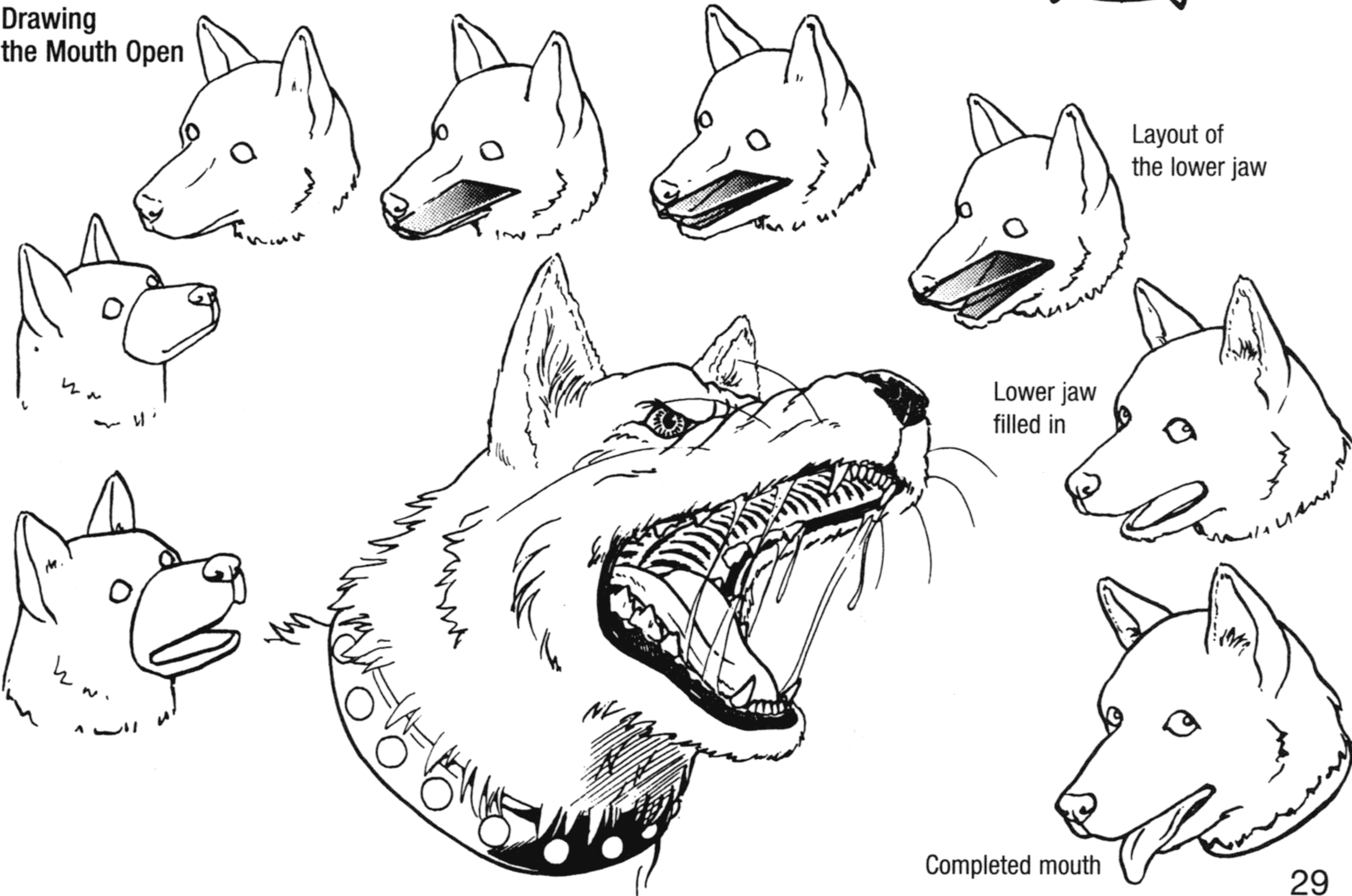
Dogs like Akitas and Collies have floppy ears during their puppy stage.





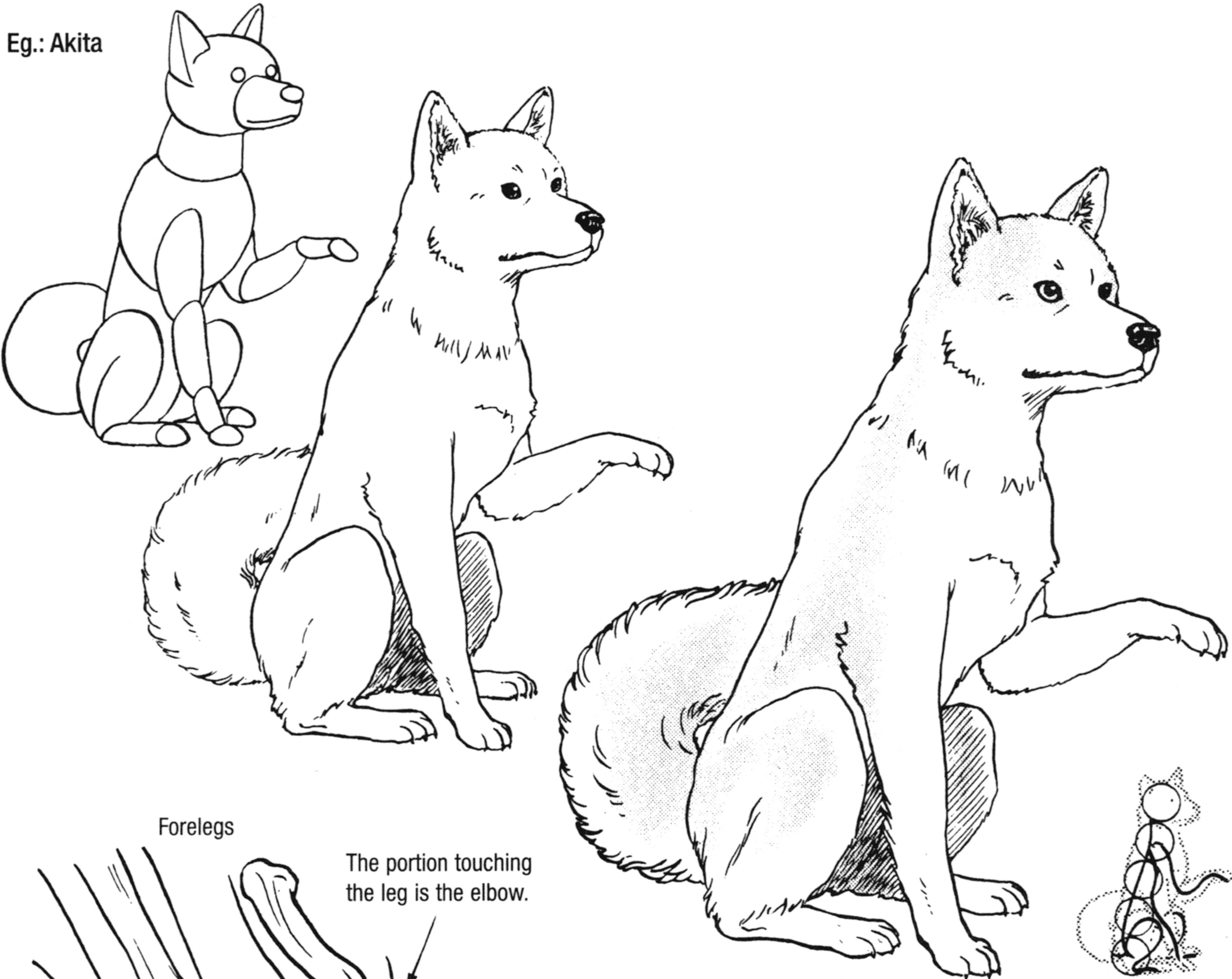


Drawing the Mouth Open

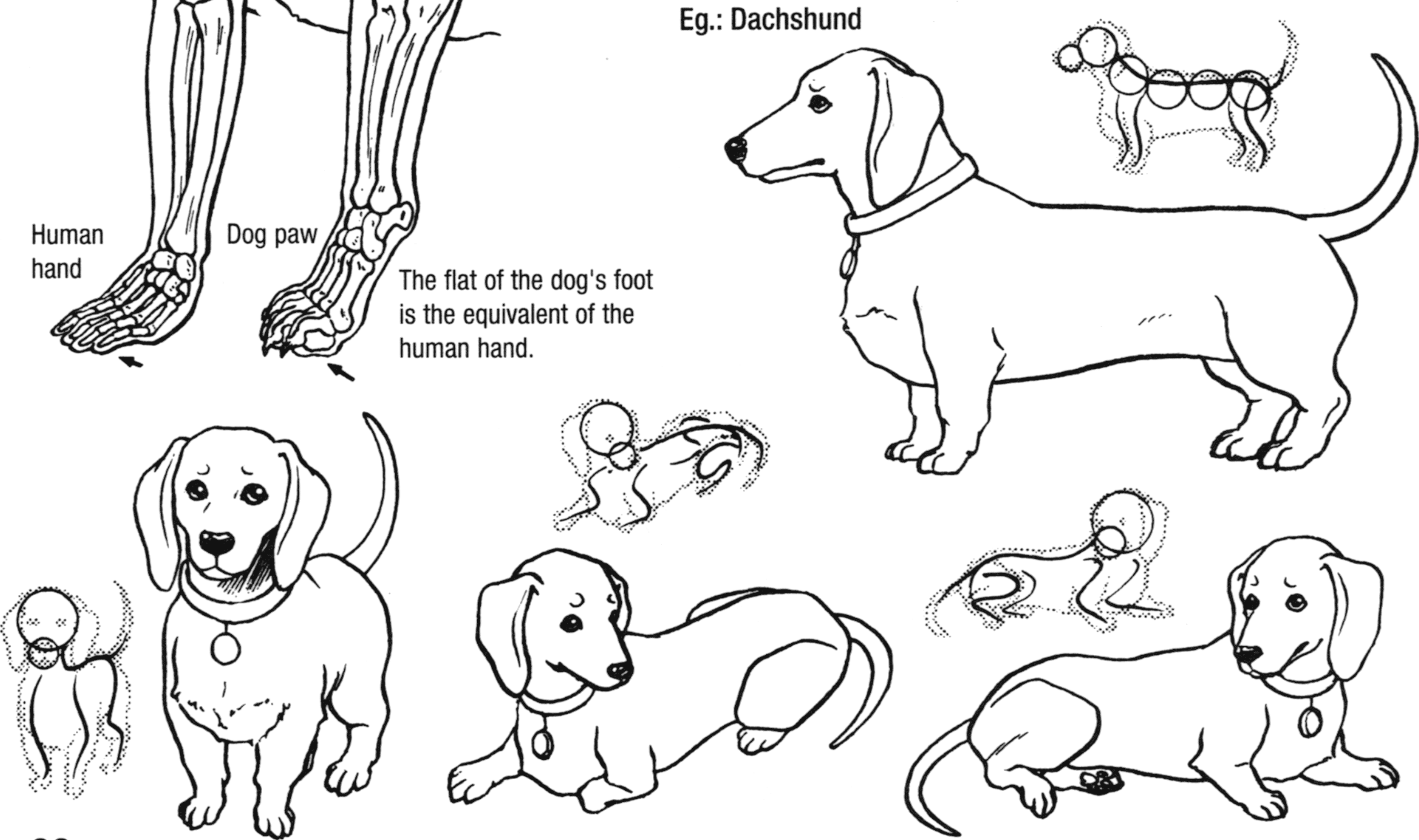




Eg.: Akita



Eg.: Dachshund



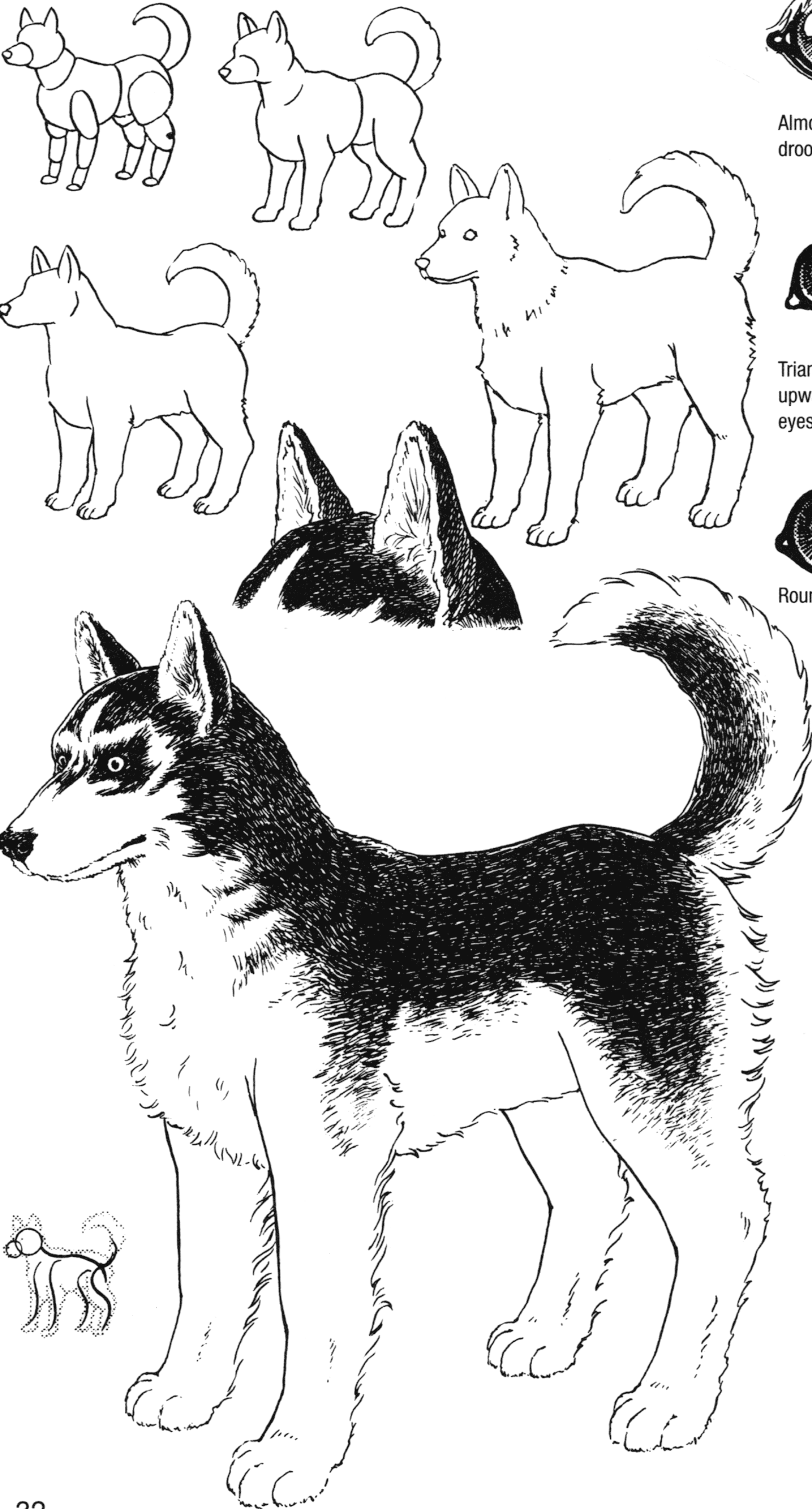






Eg.: Siberian Husky

Dogs' Eyes Come in Three Types



Almond-shaped,  
droopy eyes



Great Pyrenees,  
etc.



Triangular,  
upward slanting  
eyes



Shiba Inu, etc.

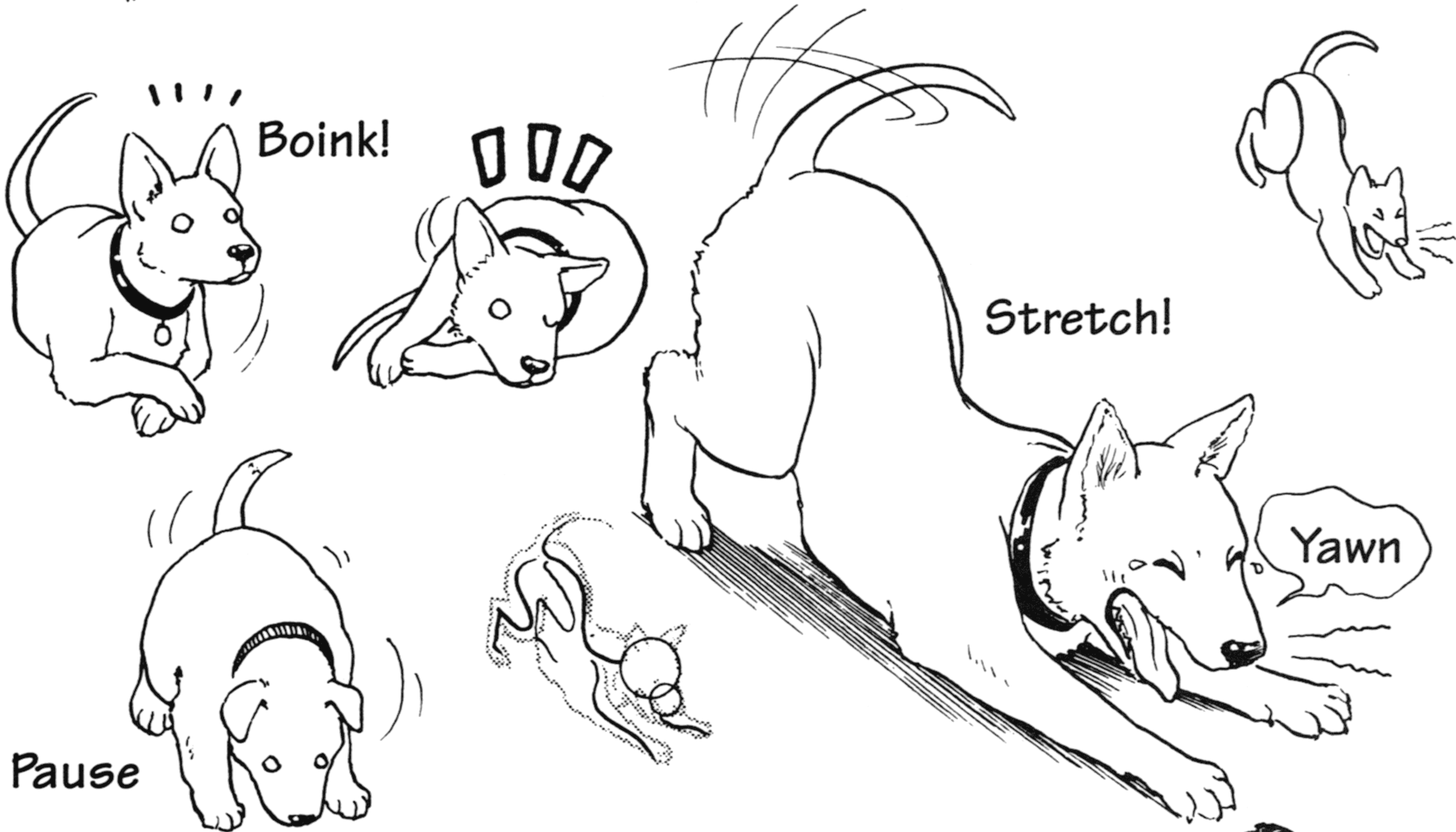
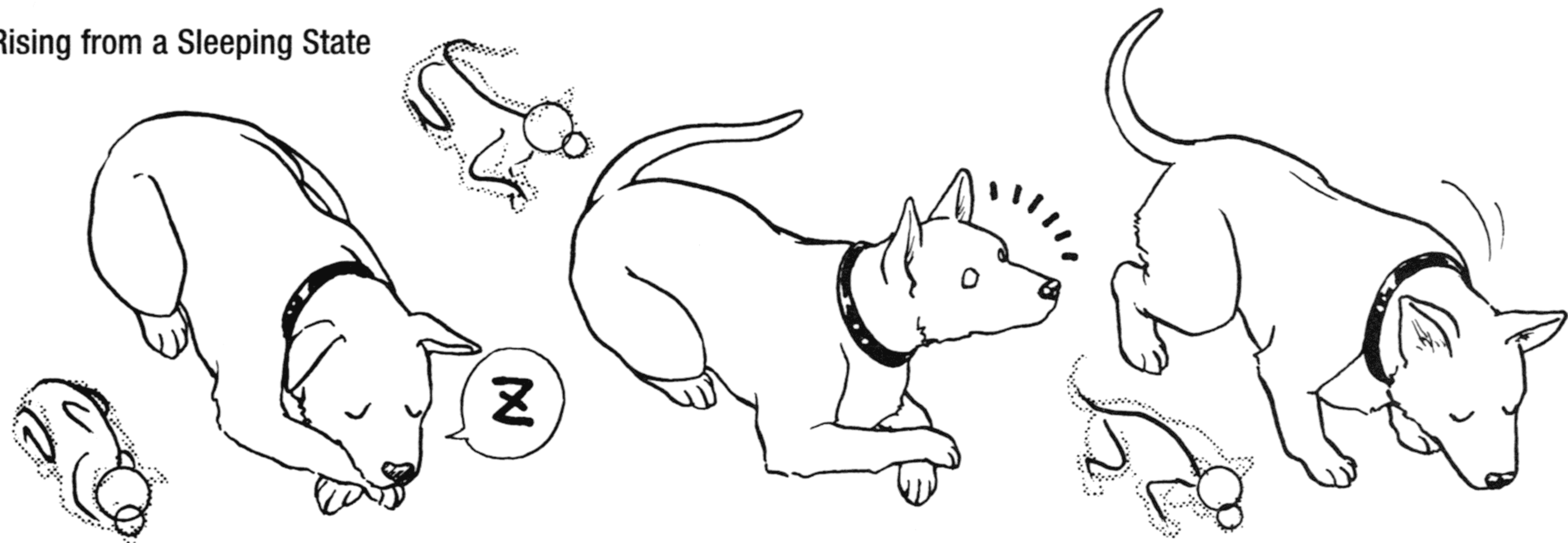


Round, popeyed



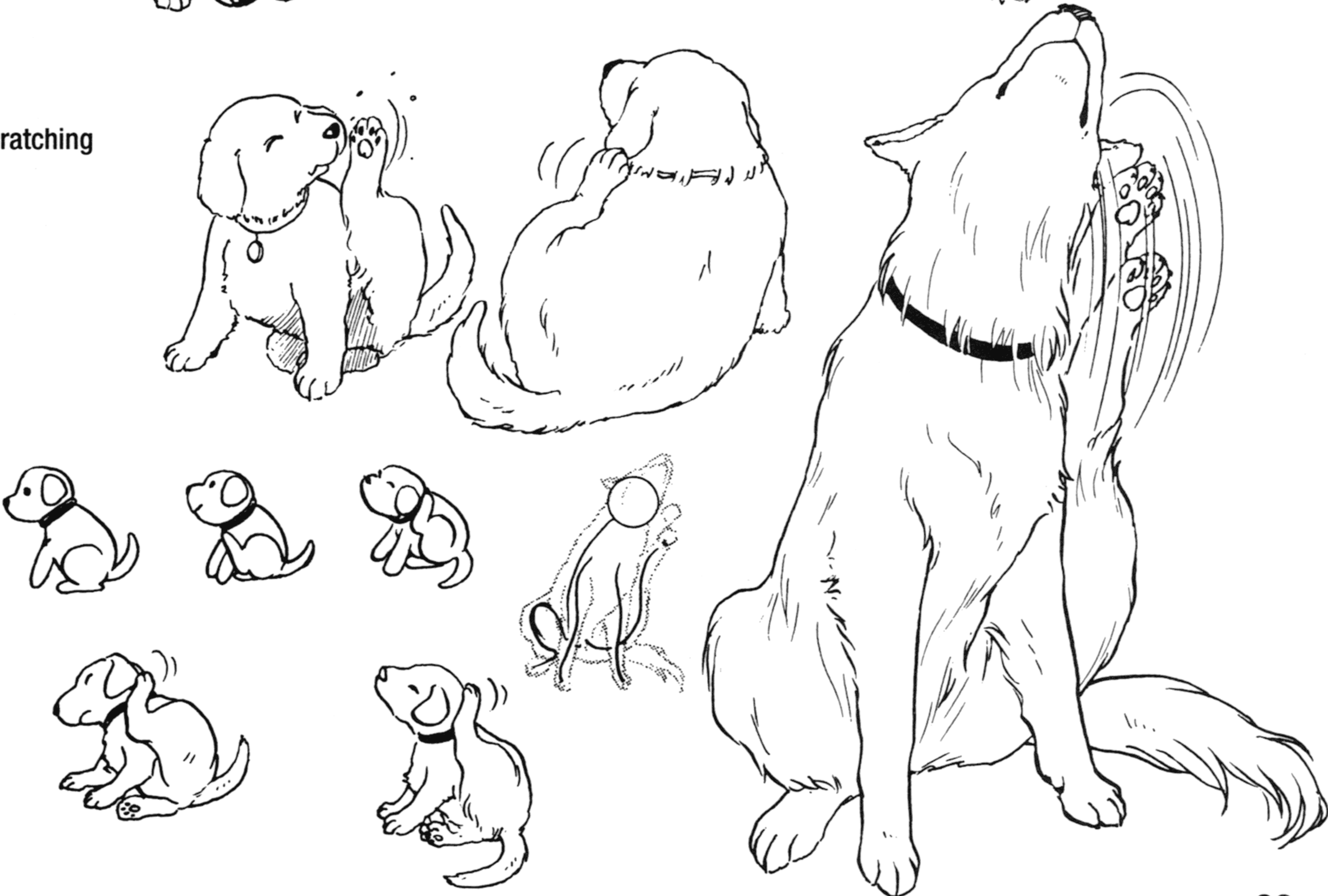
Pomeranian, etc.





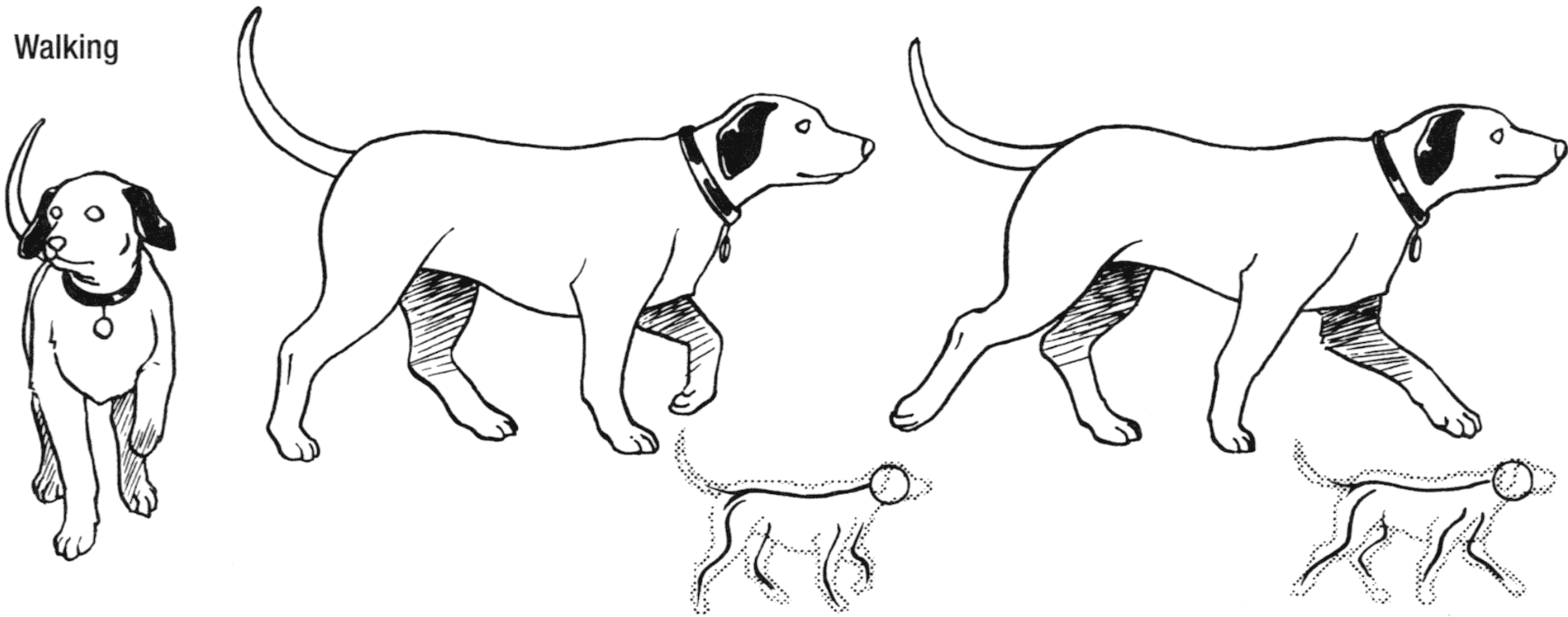
Pause

Scratching

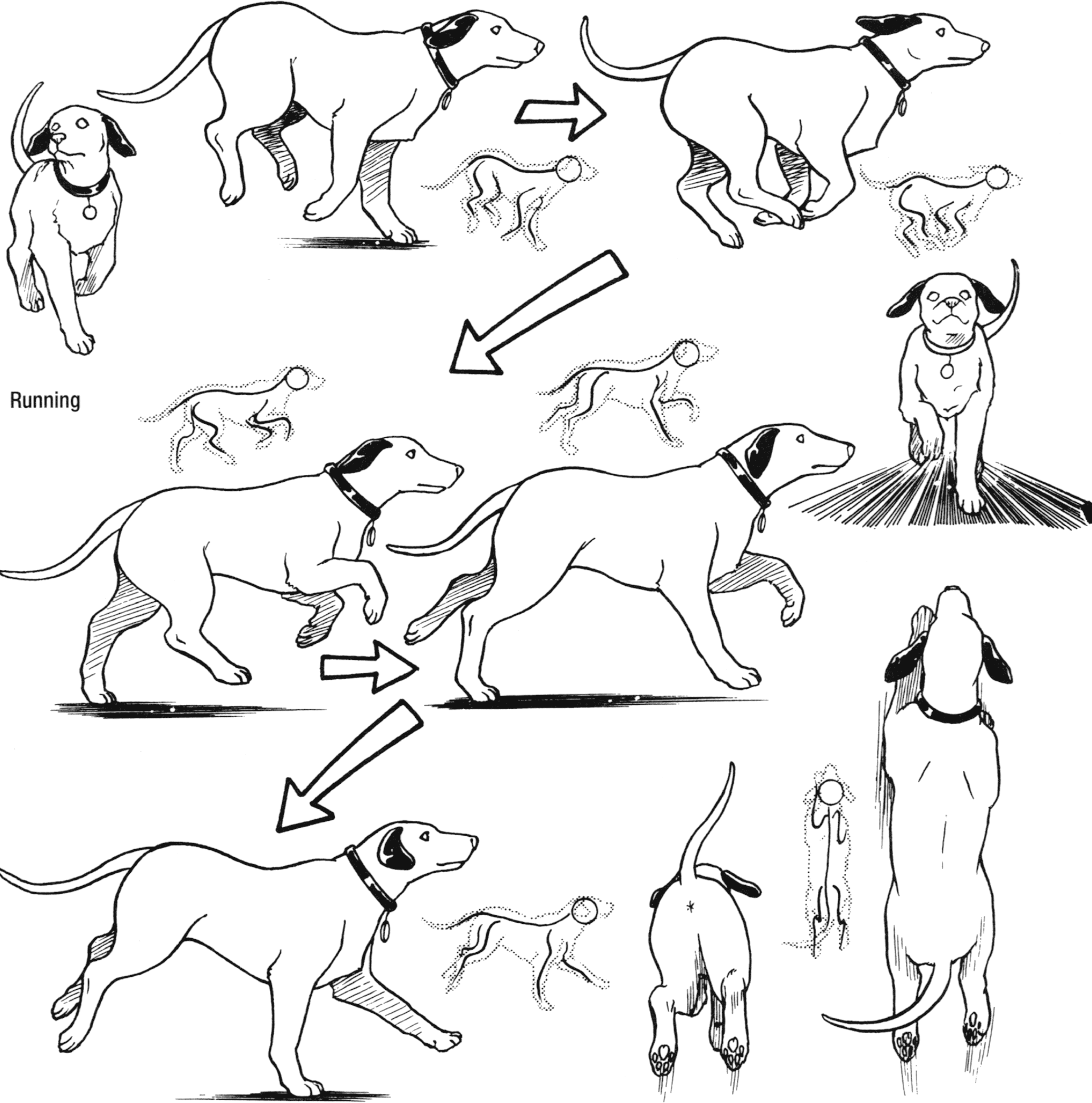




Walking

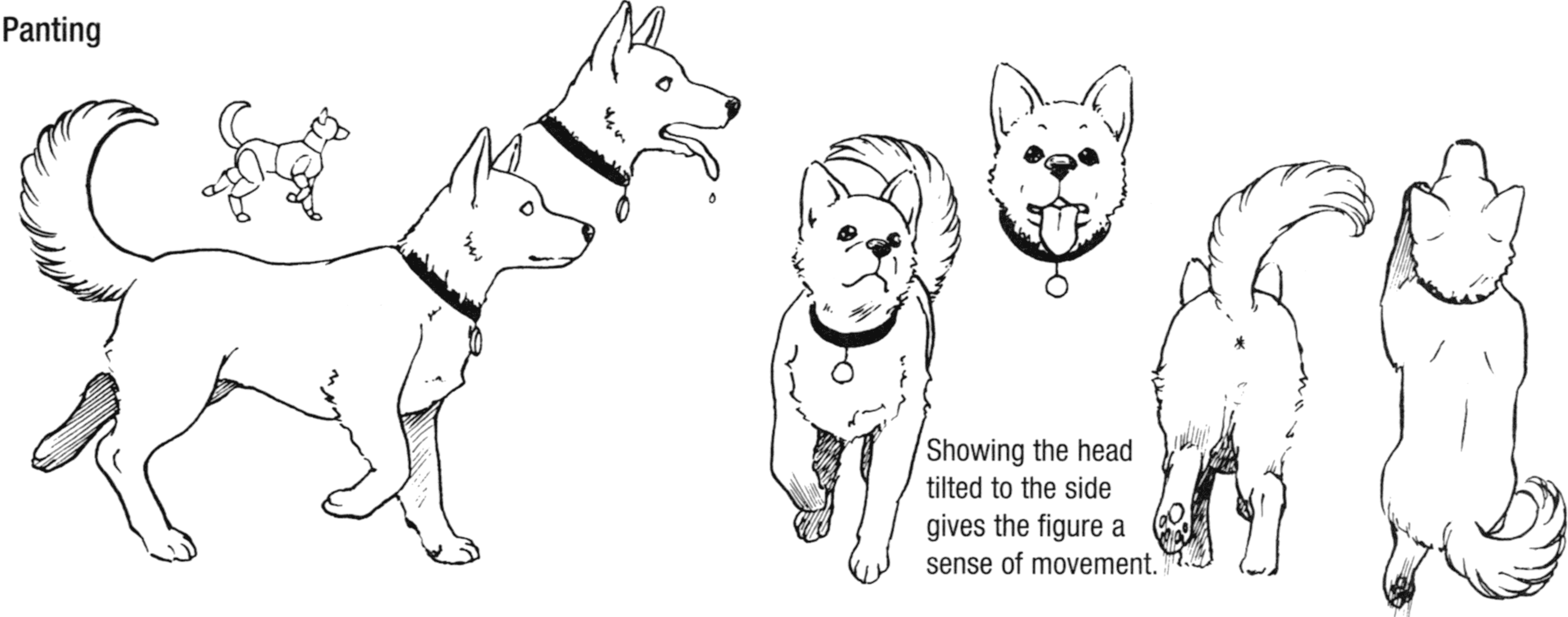


Running



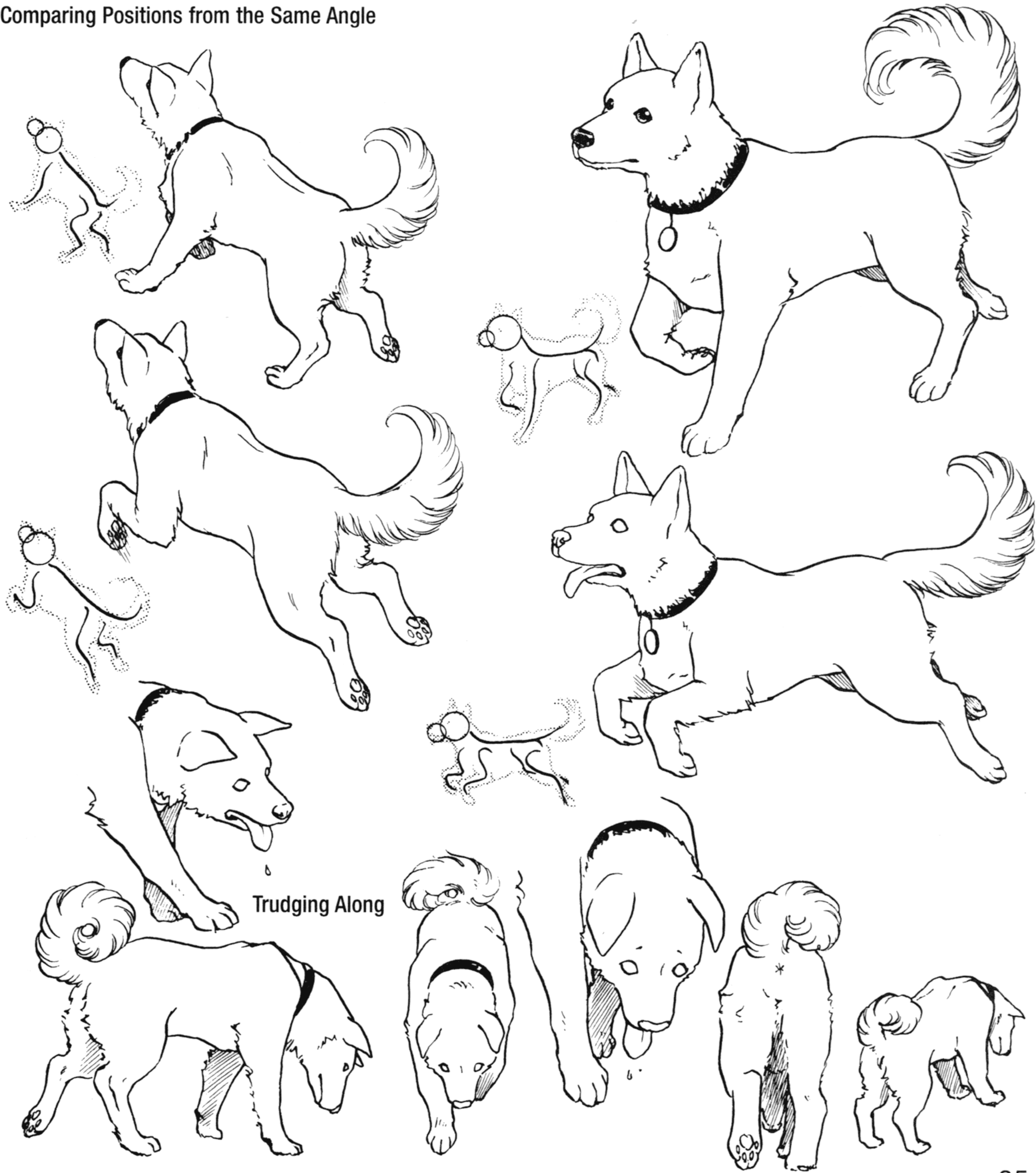


Panting



Showing the head tilted to the side gives the figure a sense of movement.

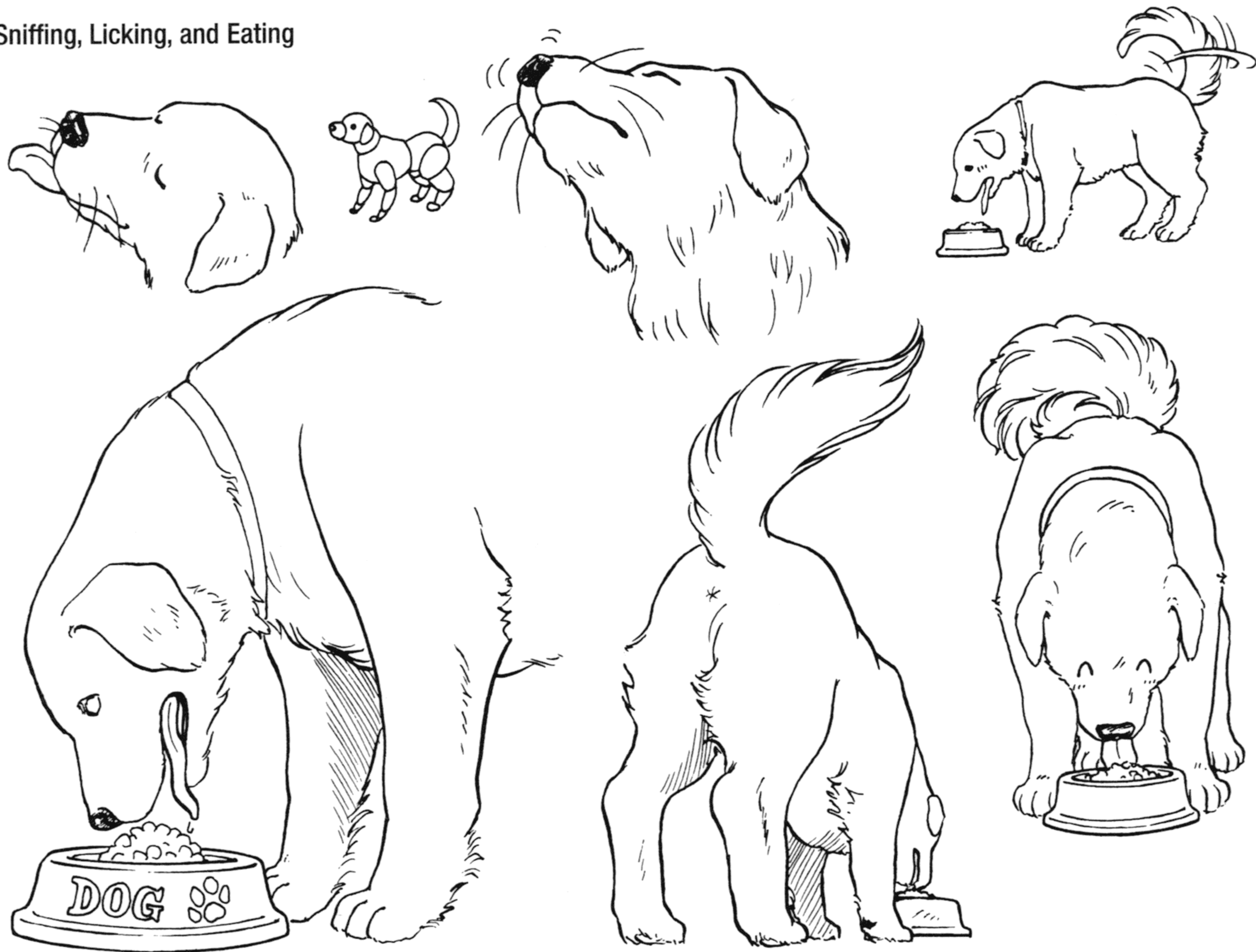
Comparing Positions from the Same Angle



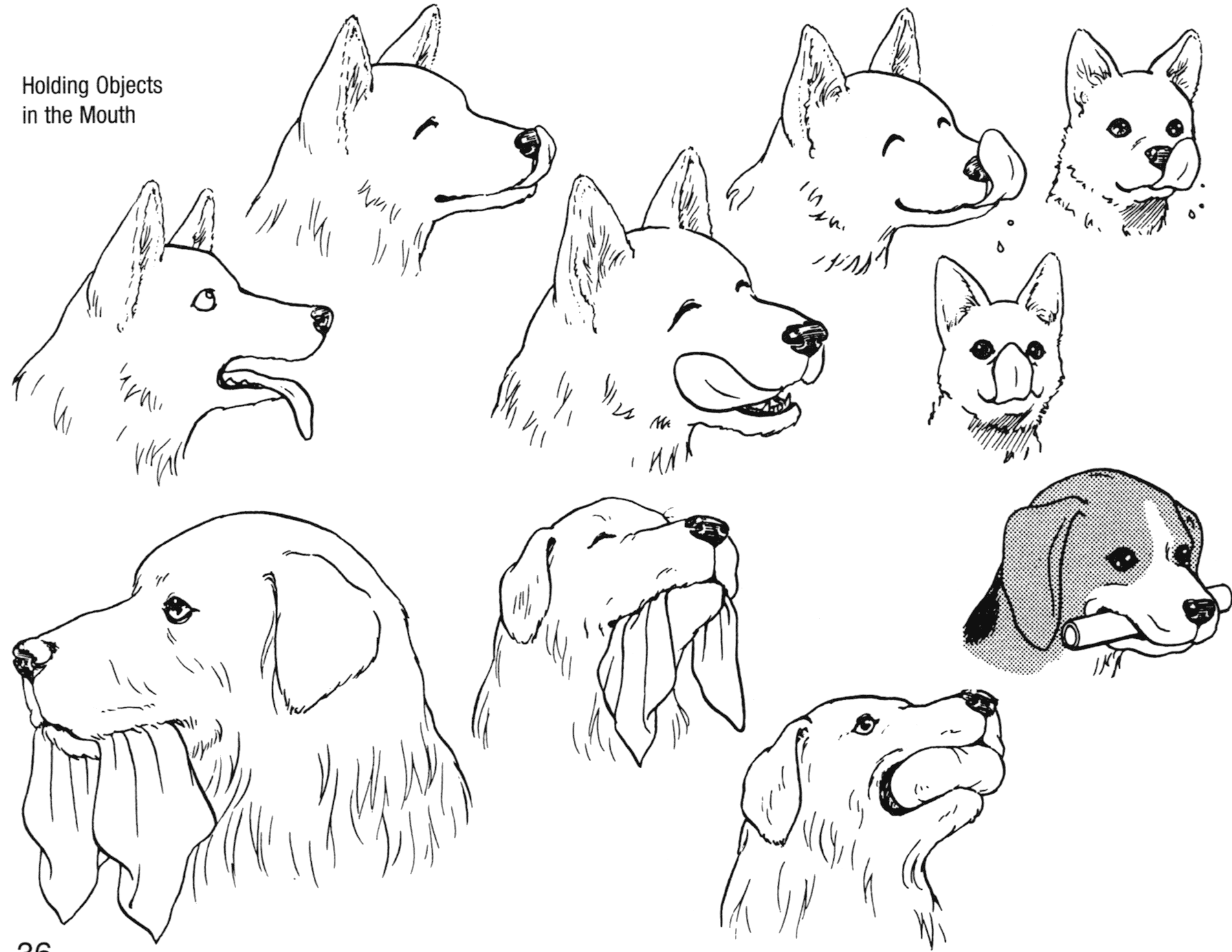
Trudging Along



Sniffing, Licking, and Eating

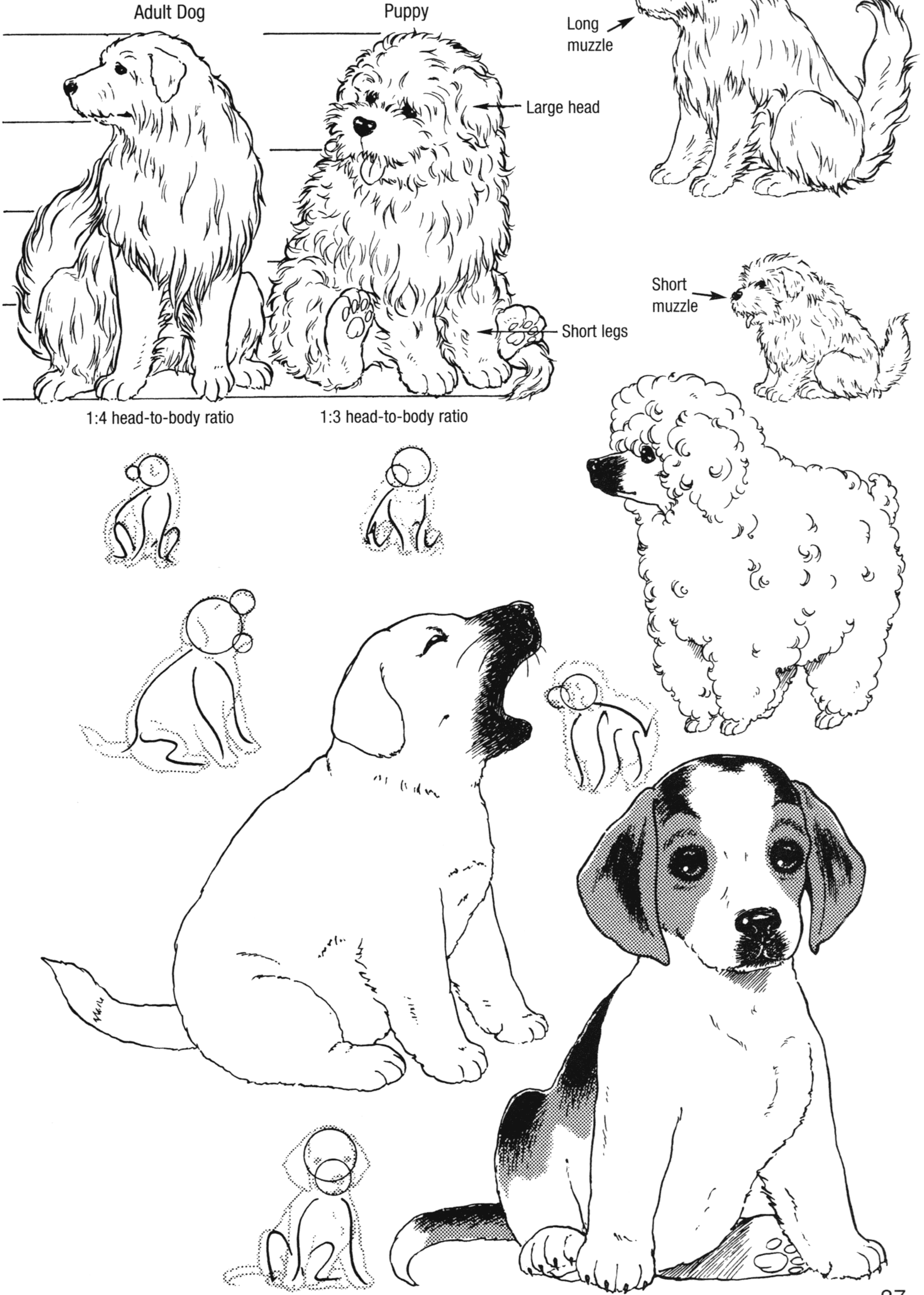


Holding Objects  
in the Mouth





**Portraying Puppies** Puppies are more compact than adult dogs and have larger heads, and on top of that, they often have thick, short legs. Your puppies should have an overall roly-poly look.



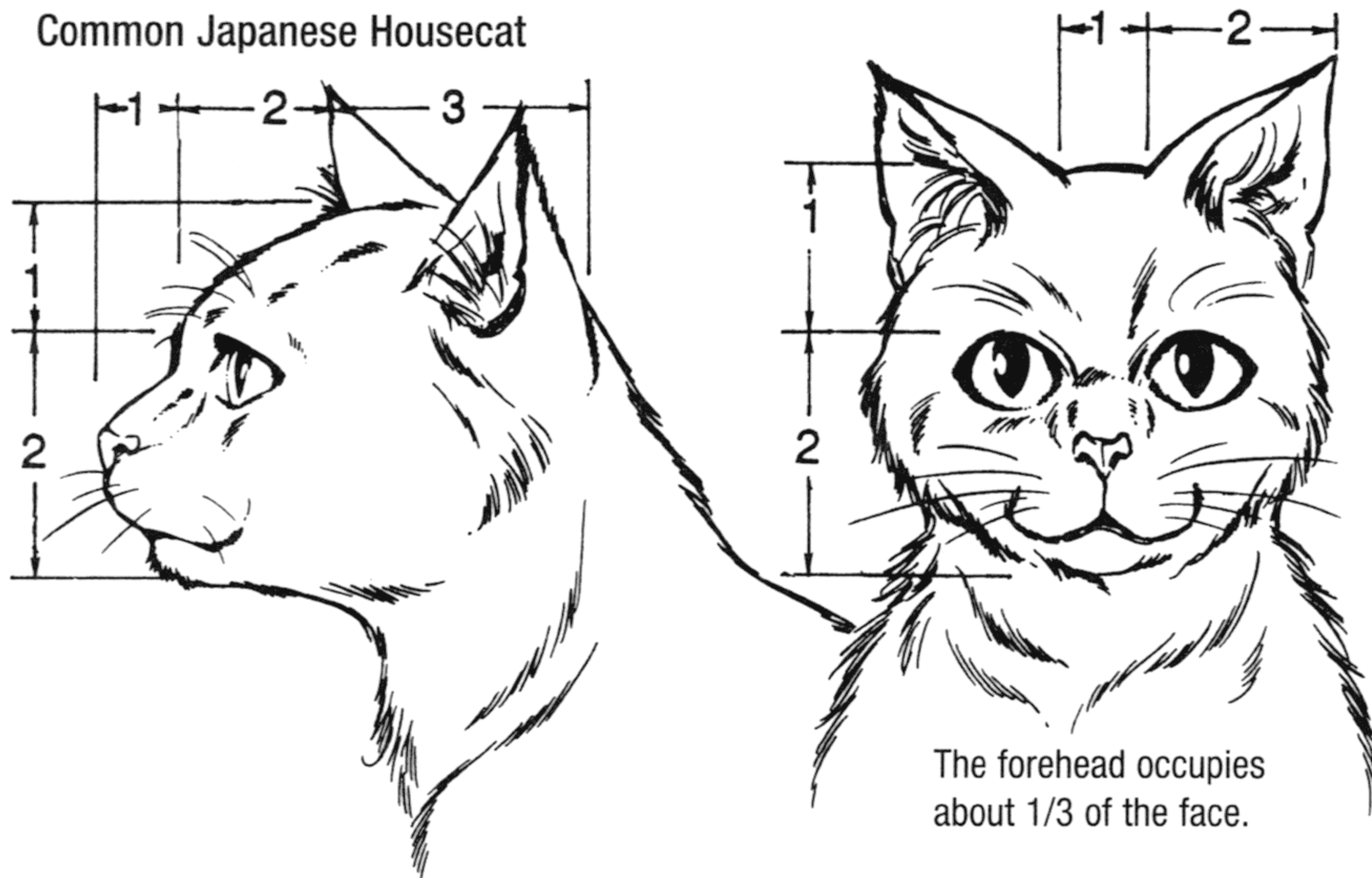


# Cats

Cat furs come in varying lengths, from that of the common Japanese housecat to fluffy puffballs, like the Persian or Himalayan.

The ears are close together (about half the distance of an ear's actual width).

## Common Japanese Housecat

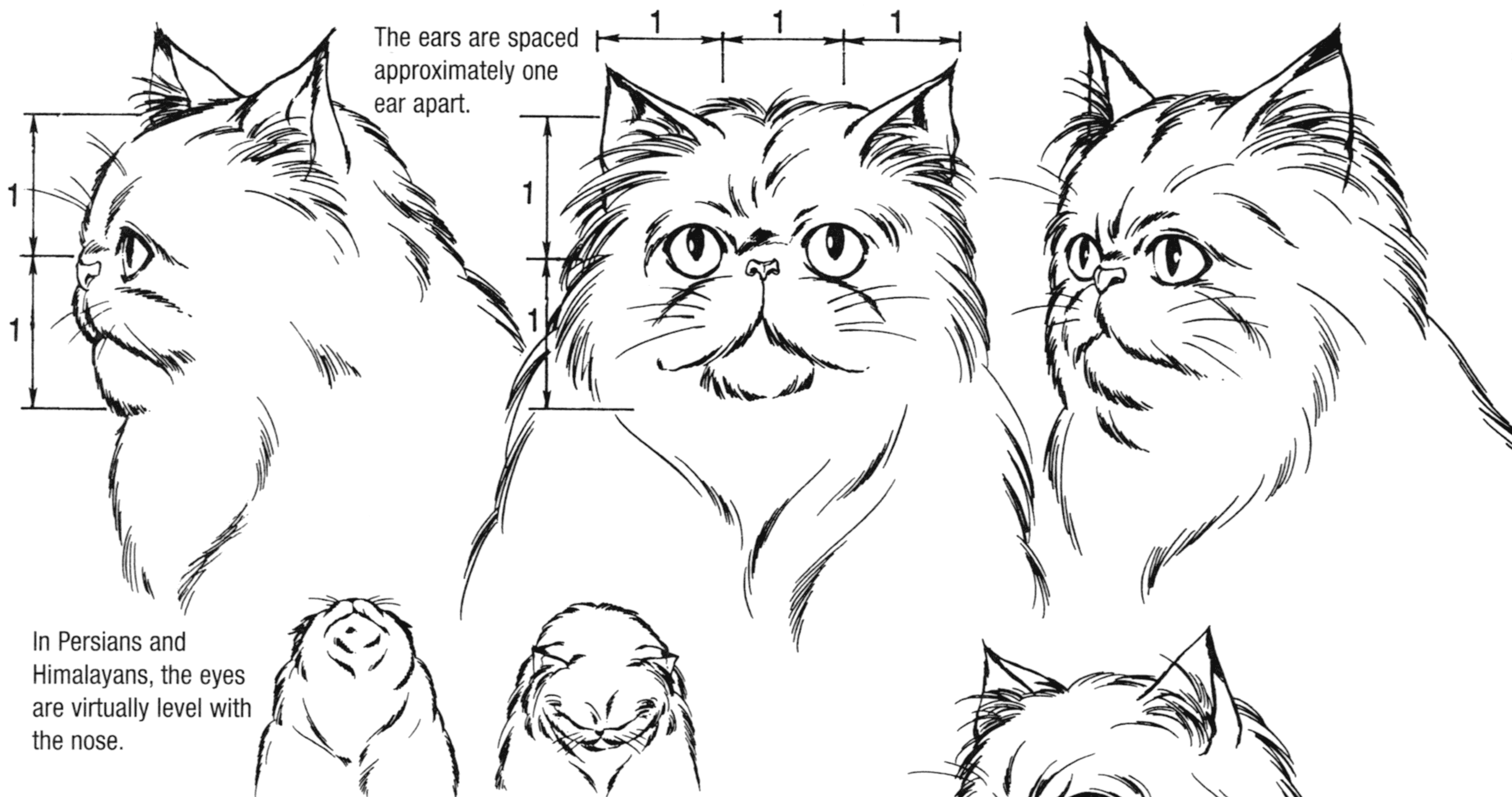


The nose protrudes about 1/5 the distance of the head's total depth.

The forehead occupies about 1/3 of the face.



## Long-haired Cats (Persian, Himalayan)



In Persians and Himalayans, the eyes are virtually level with the nose.



### Assorted Faces



Siamese  
(divided chin)



Russian Blue  
(pentagonal head)



Japanese housecat  
(round head)



Scottish Fold  
(downward folded ears)



The bridge of the nose becomes visible on Persians and Himalayans when mixed with other breeds.



Drawing the Mouth Open

Common Housecat

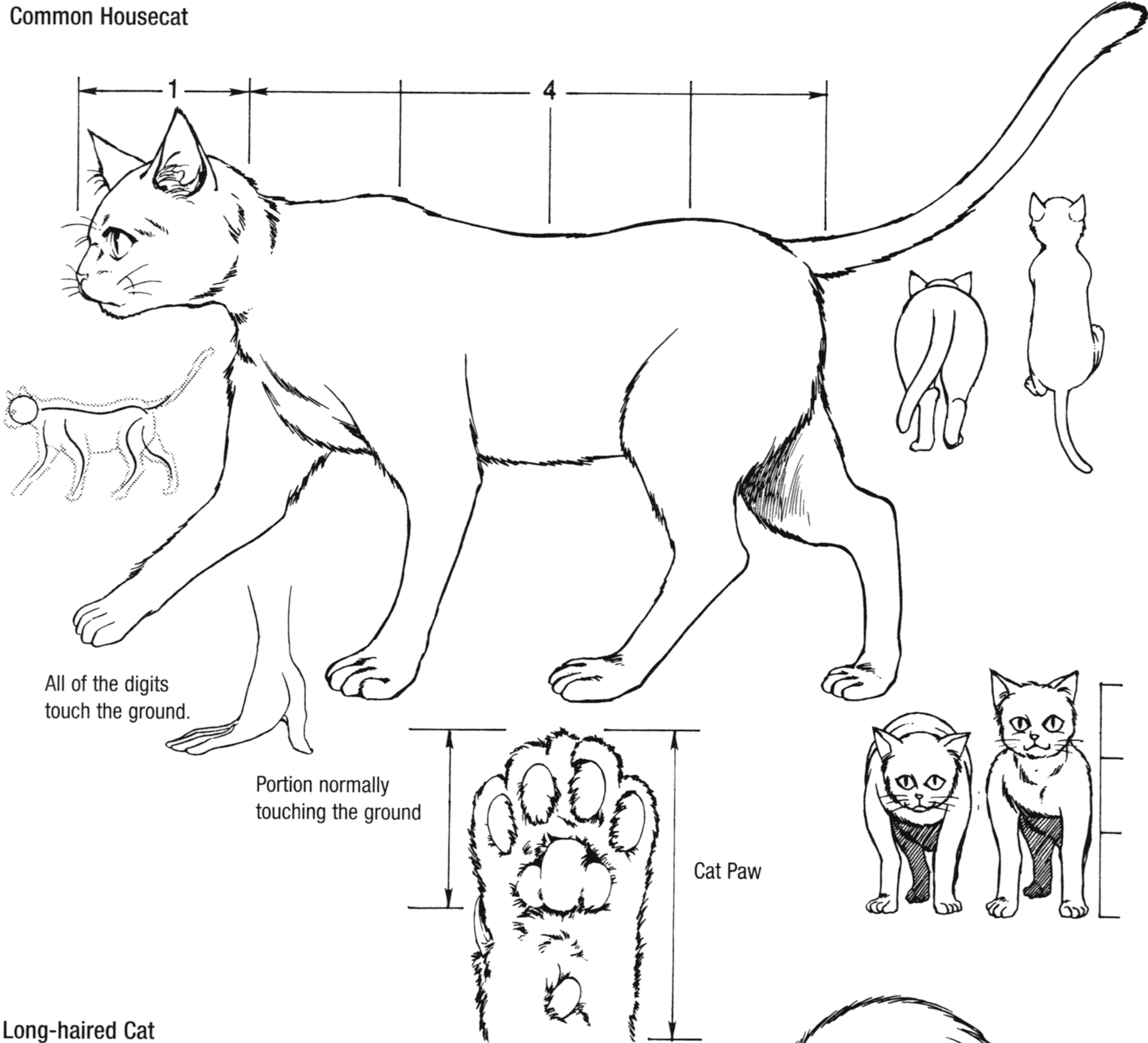


Long-haired Cat

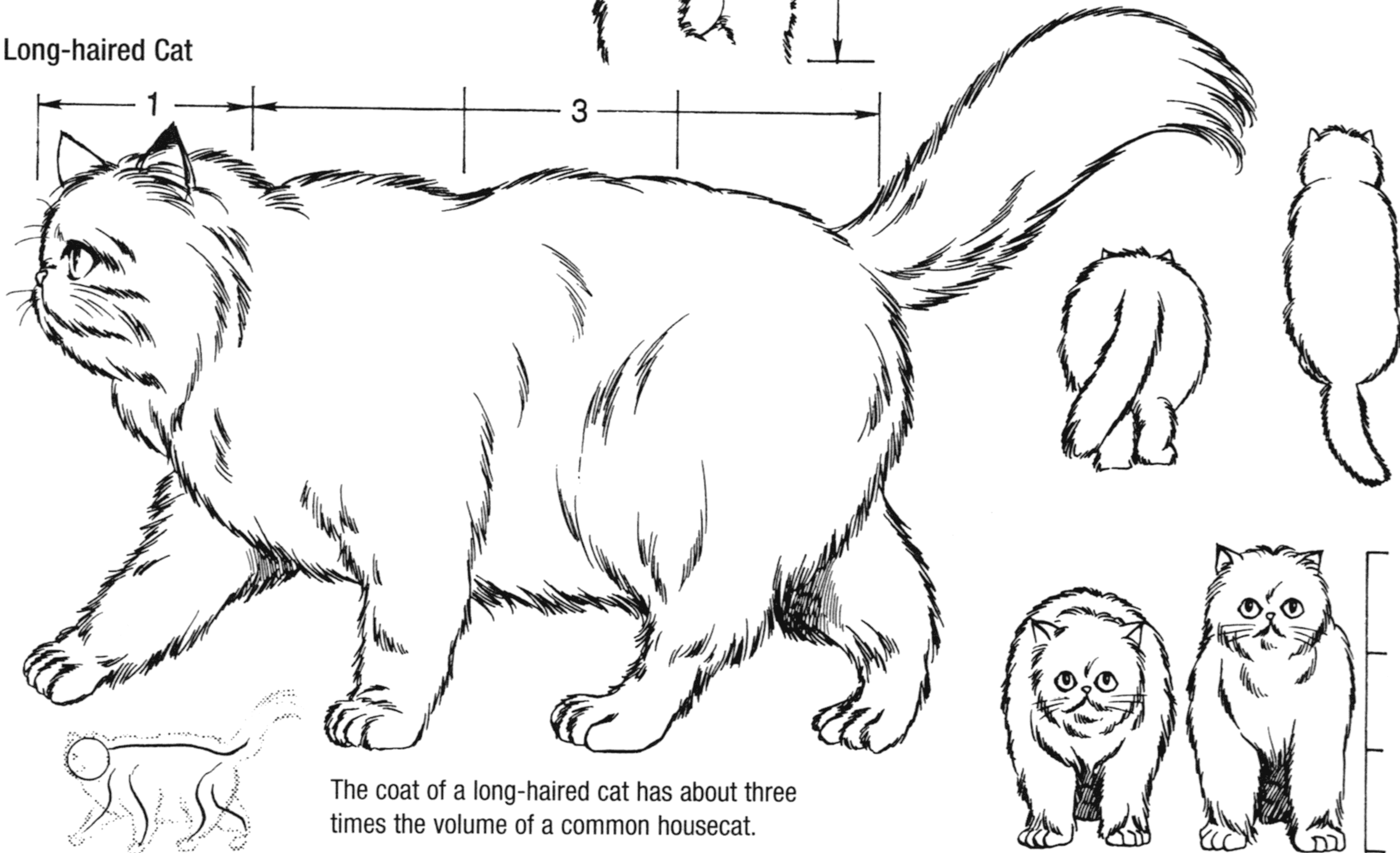




Common Housecat

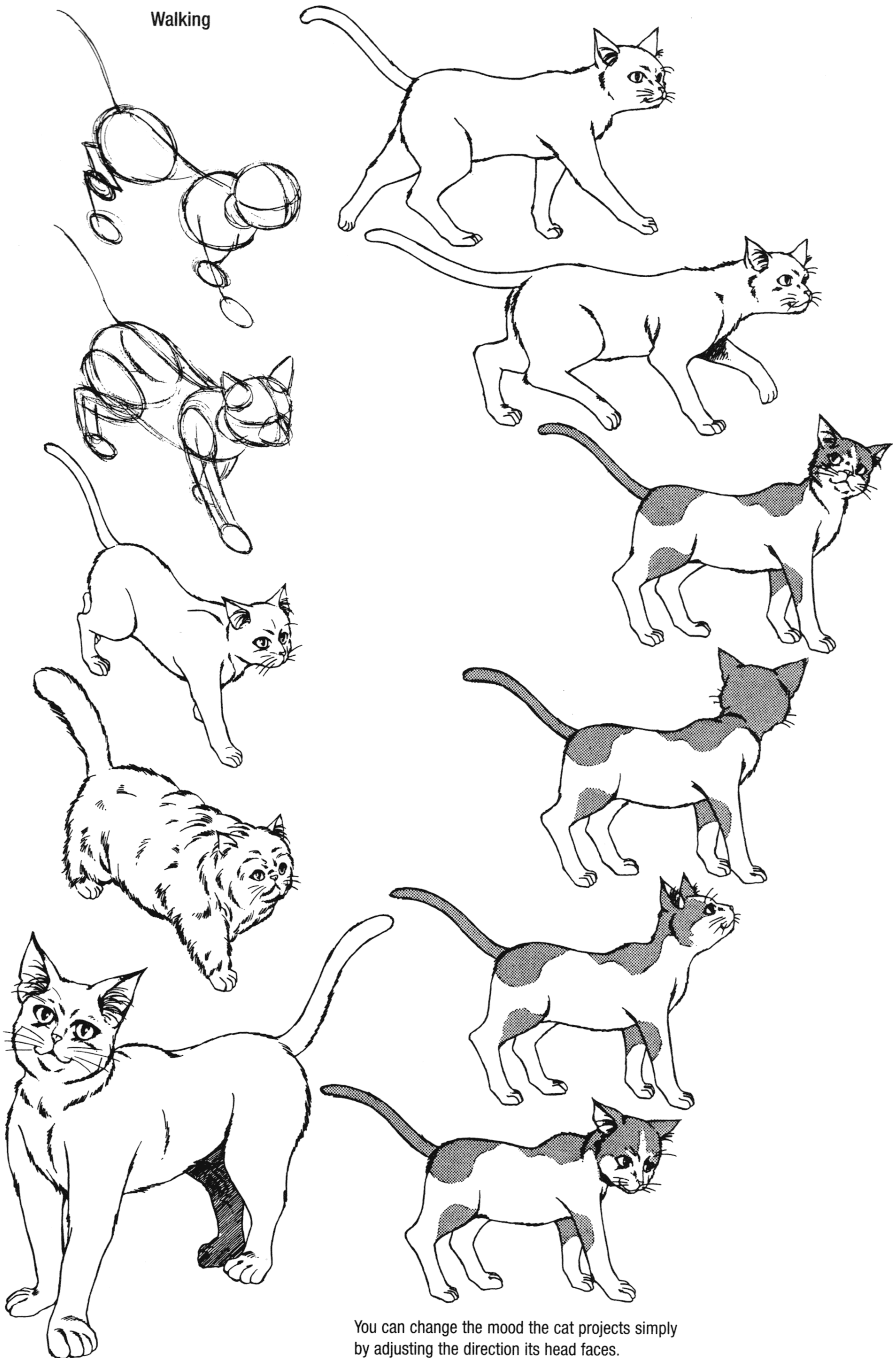


Long-haired Cat



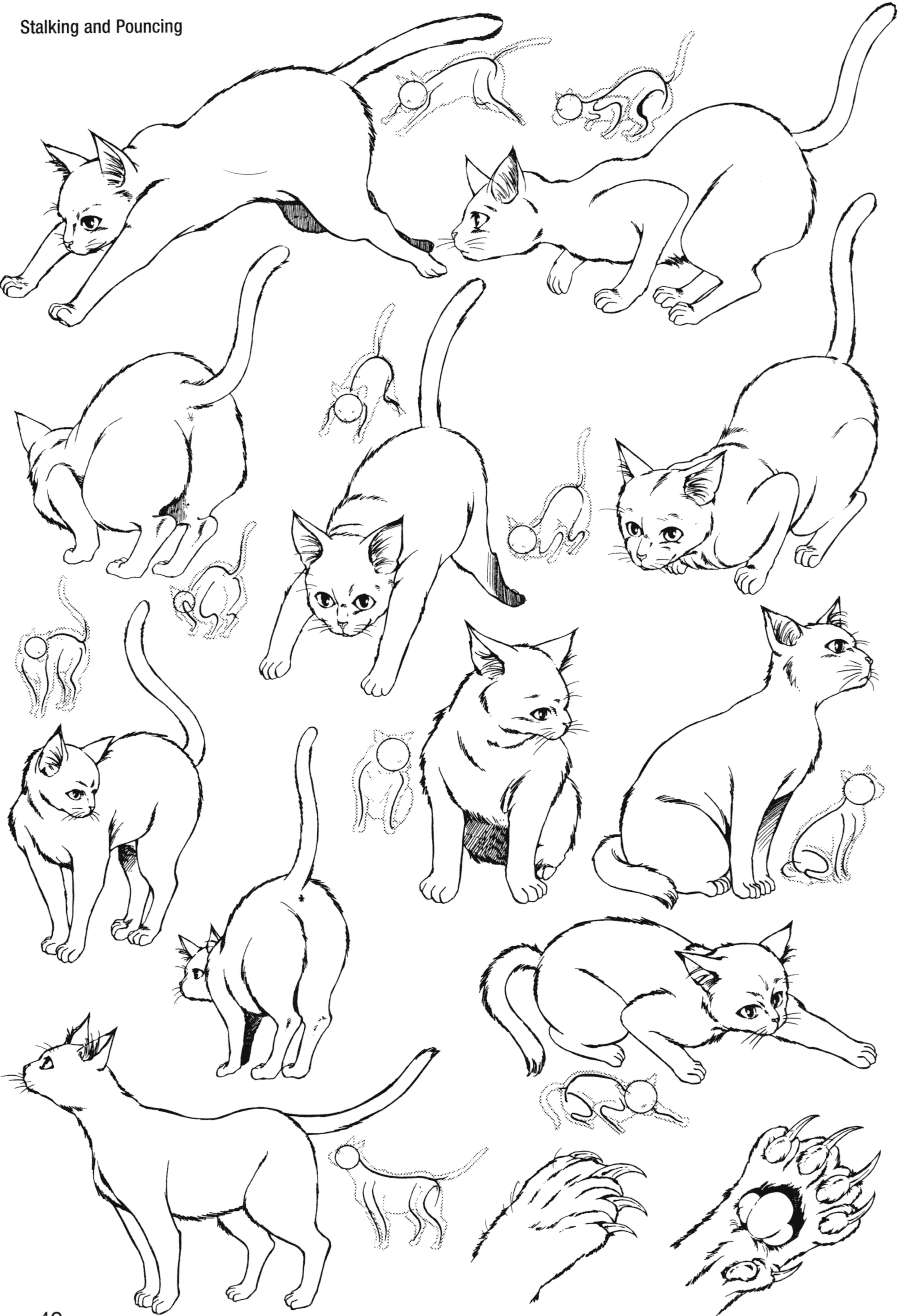


Walking



You can change the mood the cat projects simply by adjusting the direction its head faces.

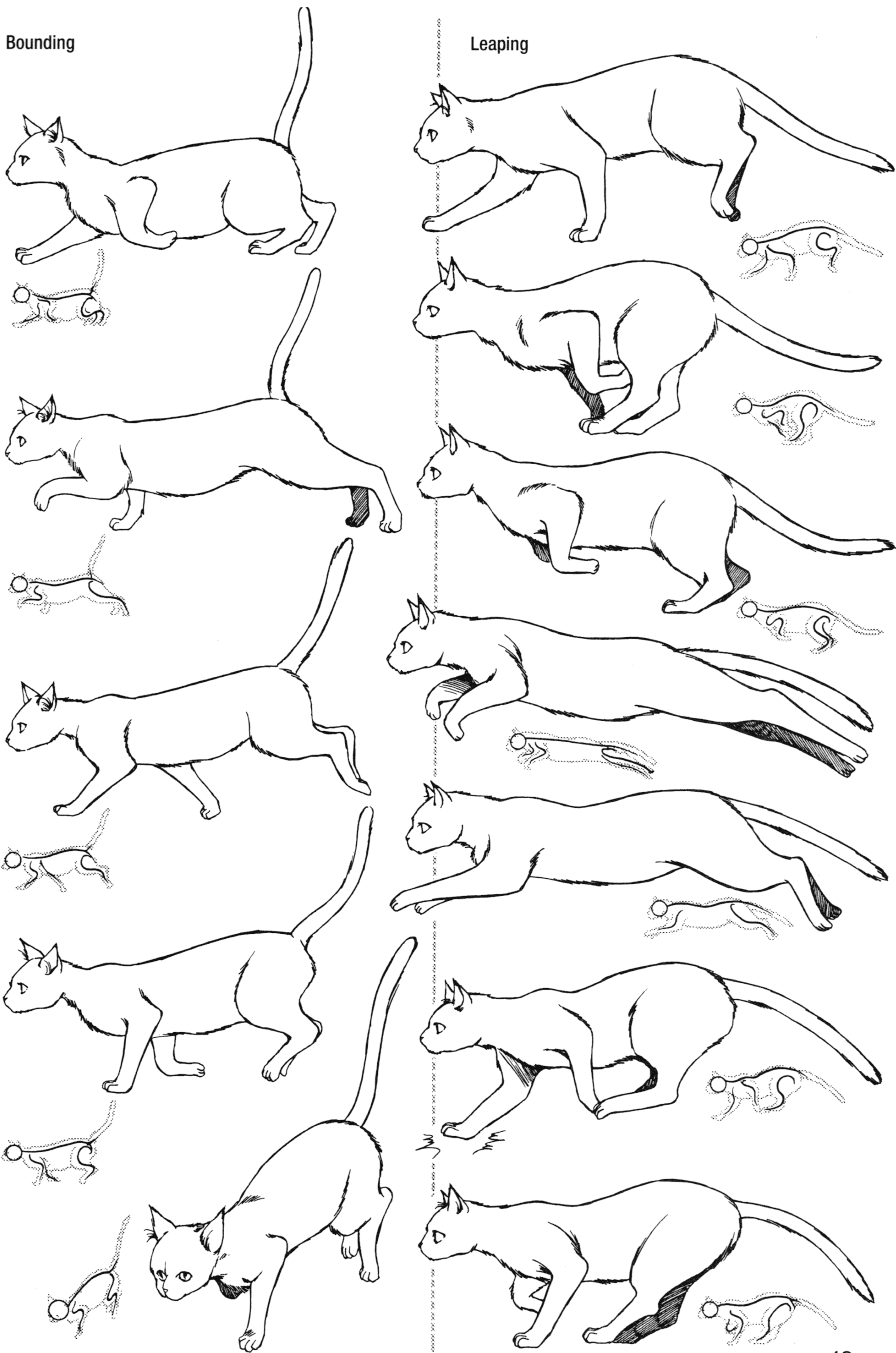






Bounding

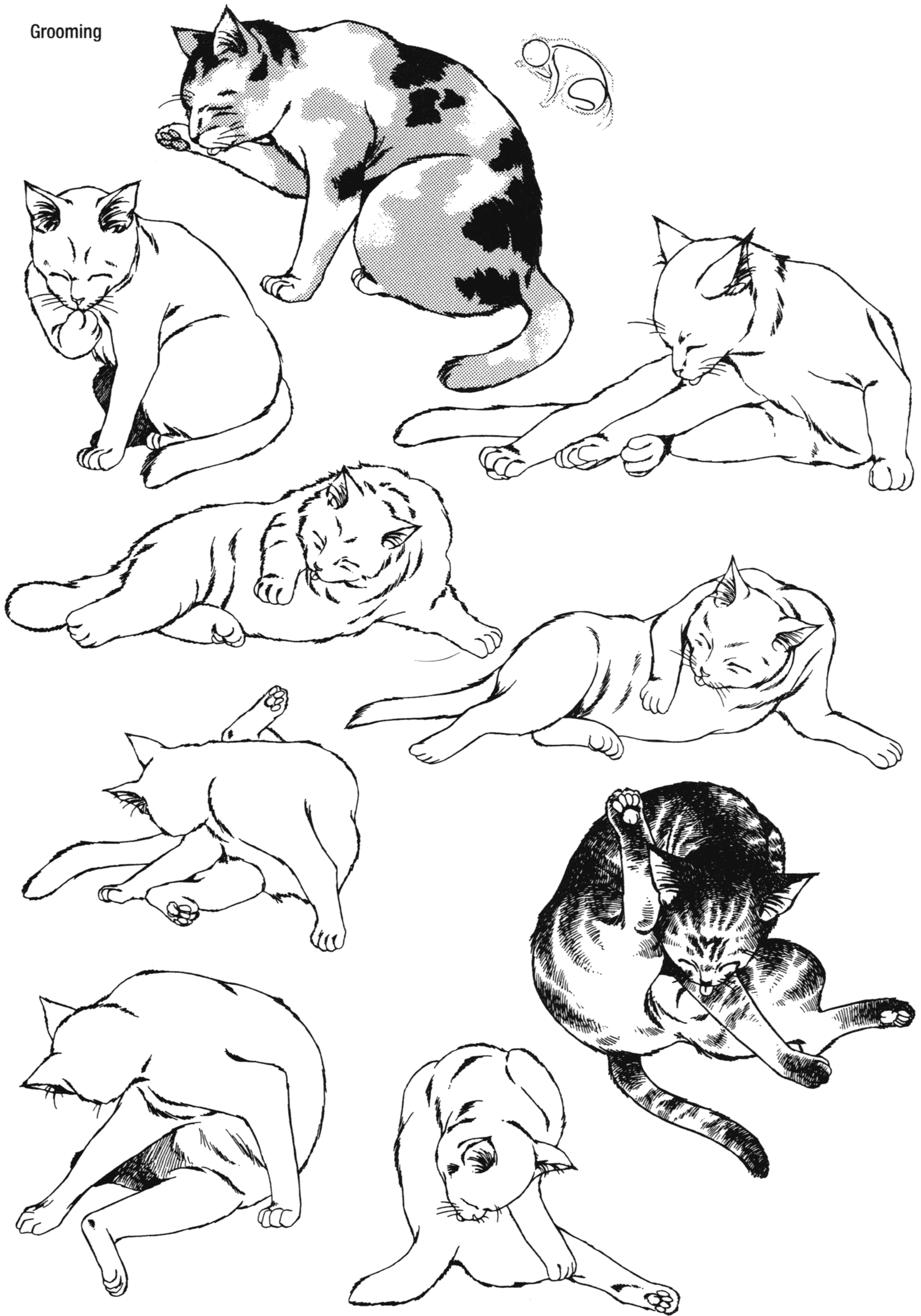
Leaping













Holding a Cat



Lifting a Cat

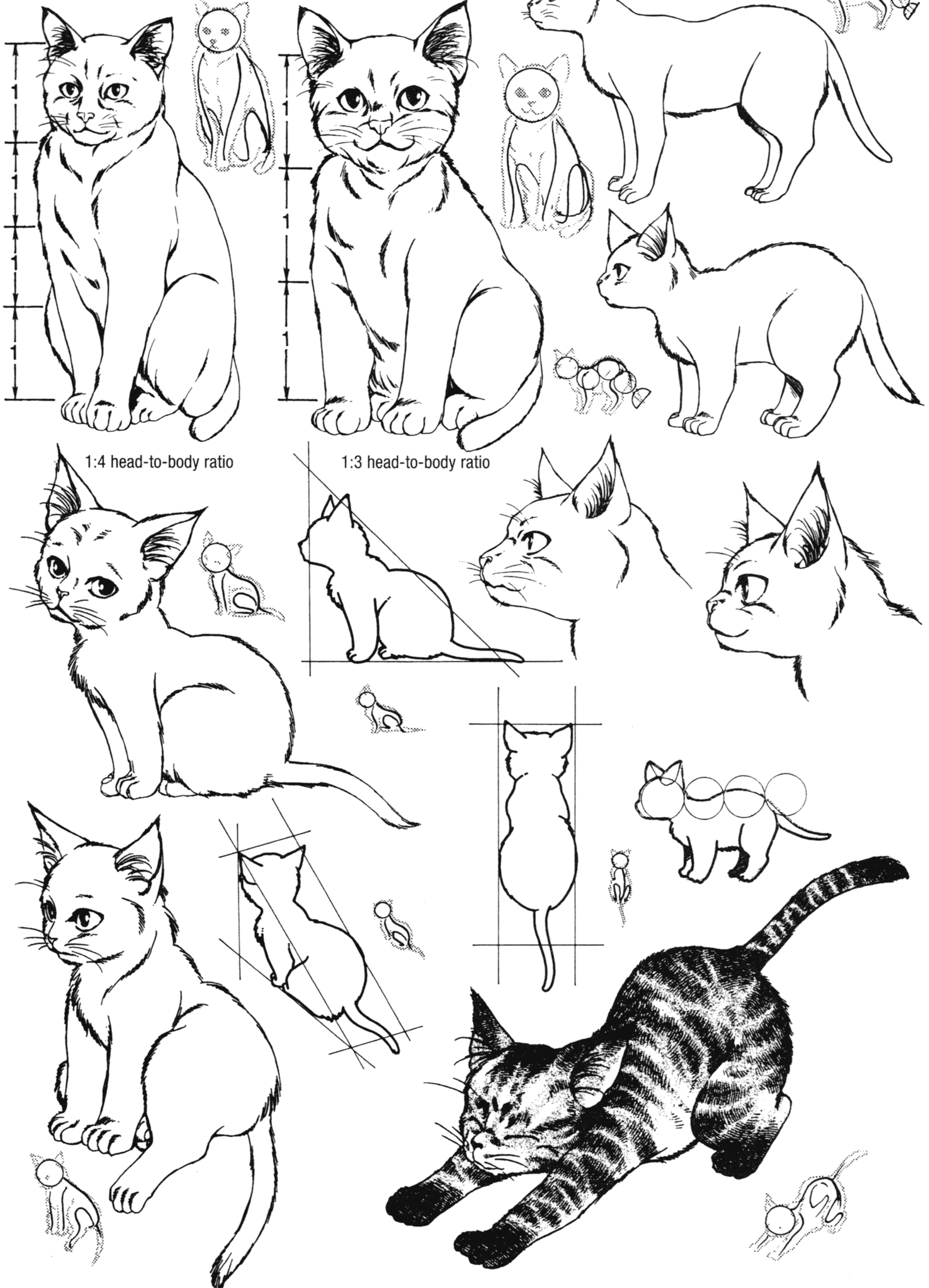




Kitten

Kitten shown at the same size as an adult cat

An adult cat

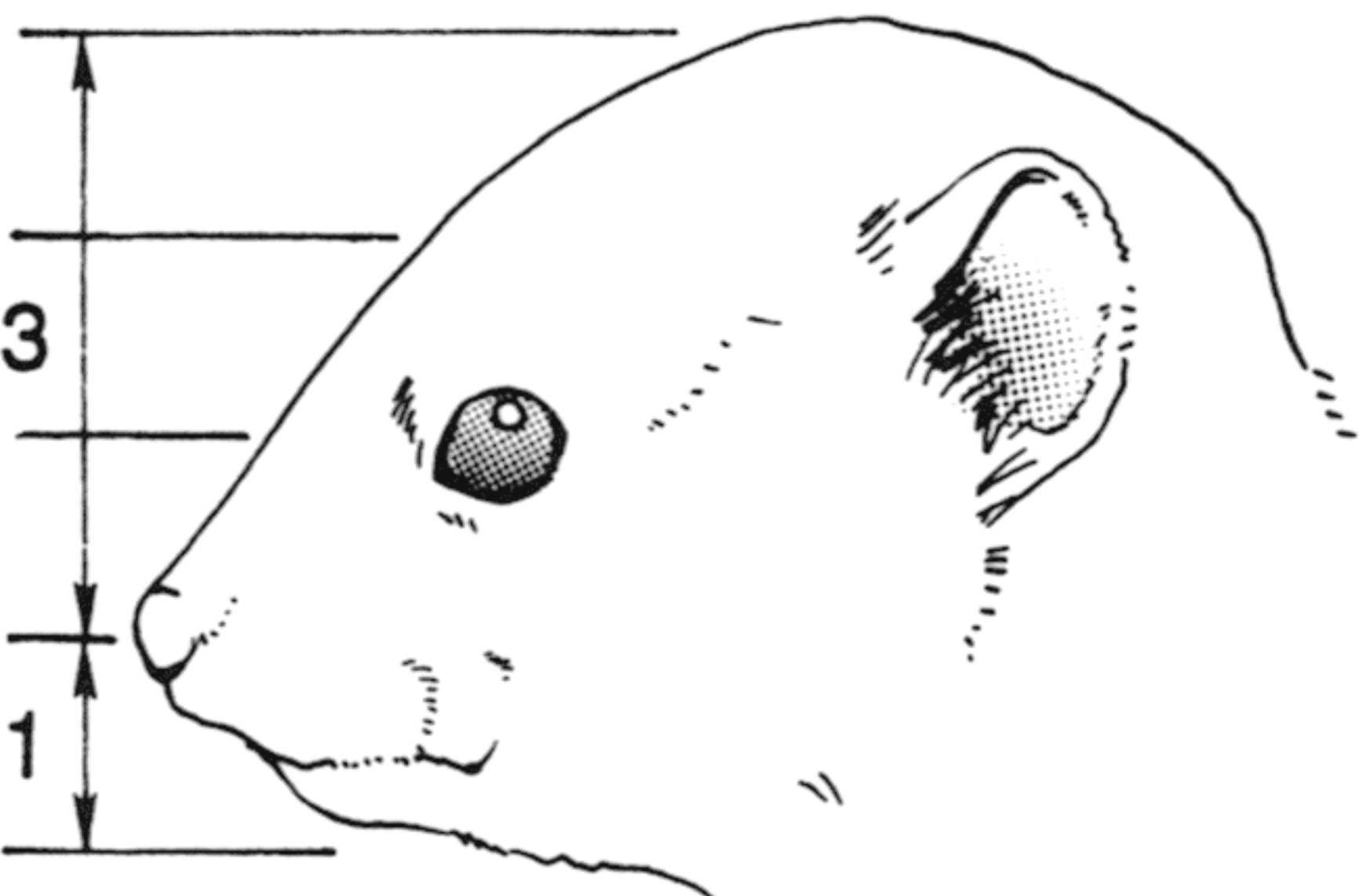




# Ferrets

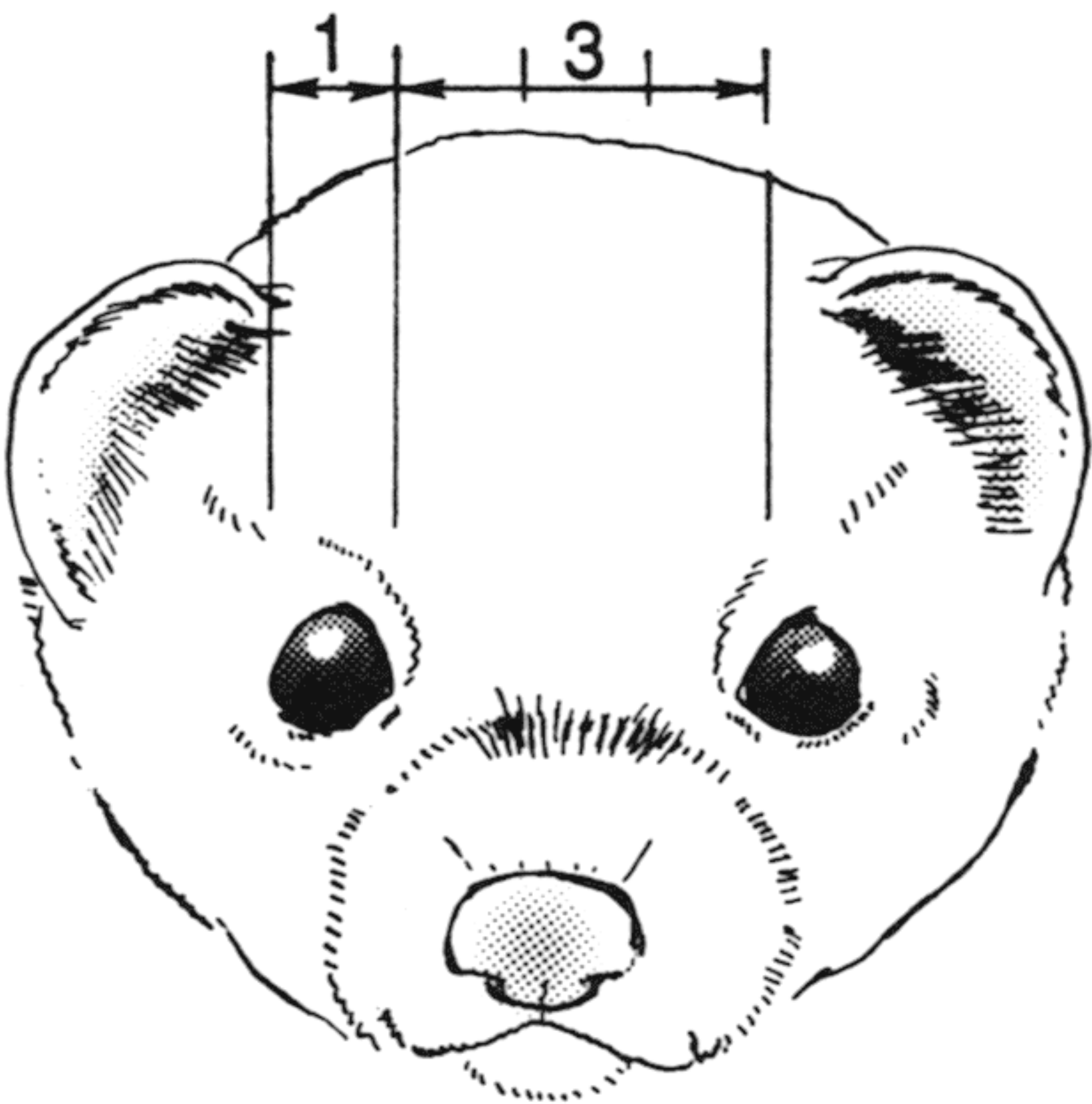
Ferrets are members of the weasel family. They have long bodies, and their tails occupy about 1/3 of their overall length. Their lithe bodies require sinuous lines to draw the figure's contours.

Keep the nose and mouth on the short side. The distance from the nose to the top of the head occupies about 3/4 of the head overall.



The profile is like a circle attached to a triangle. Add large ears almost the same size as four eyes stuck together.

The distance between the eyes is about three eyes in length.

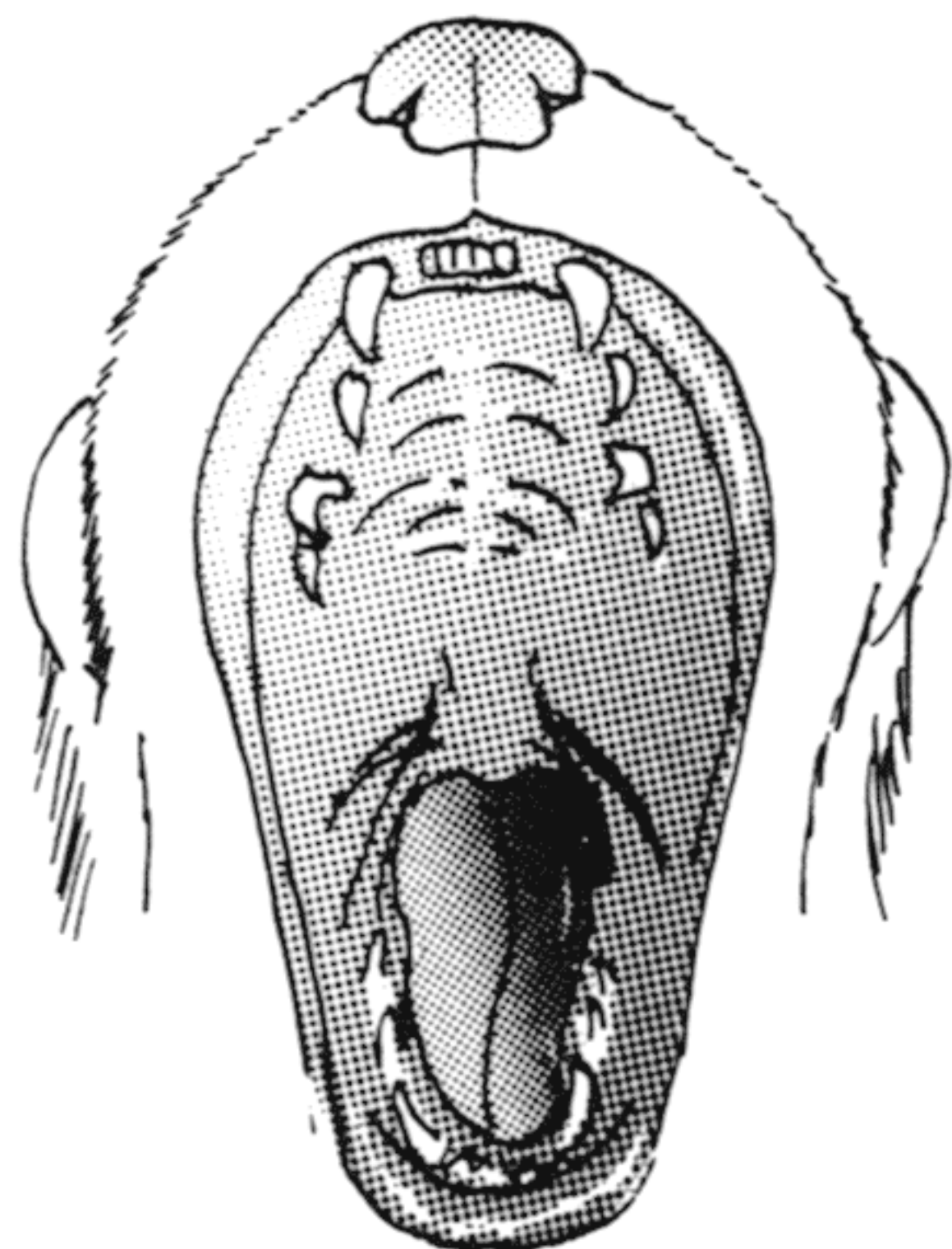
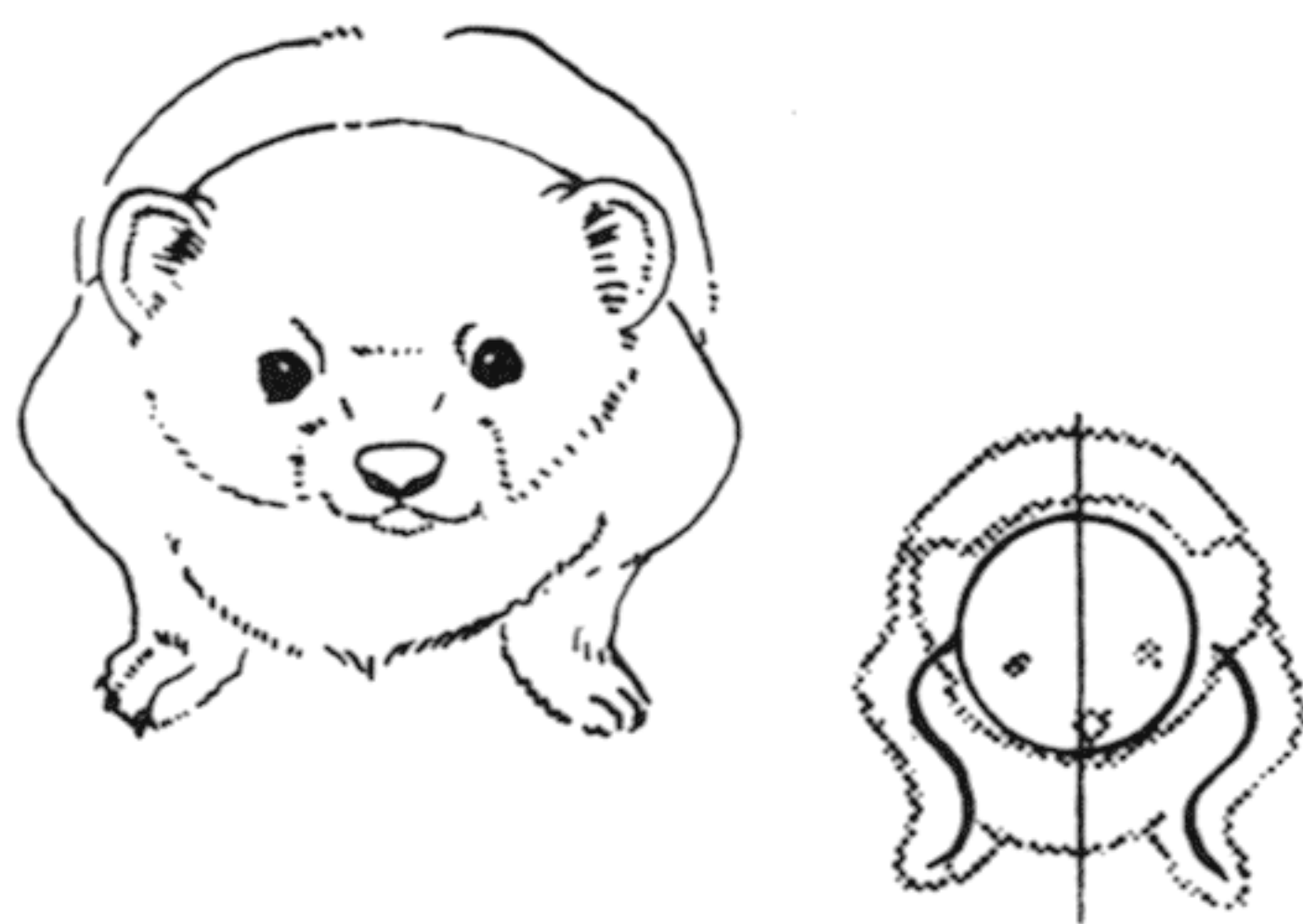
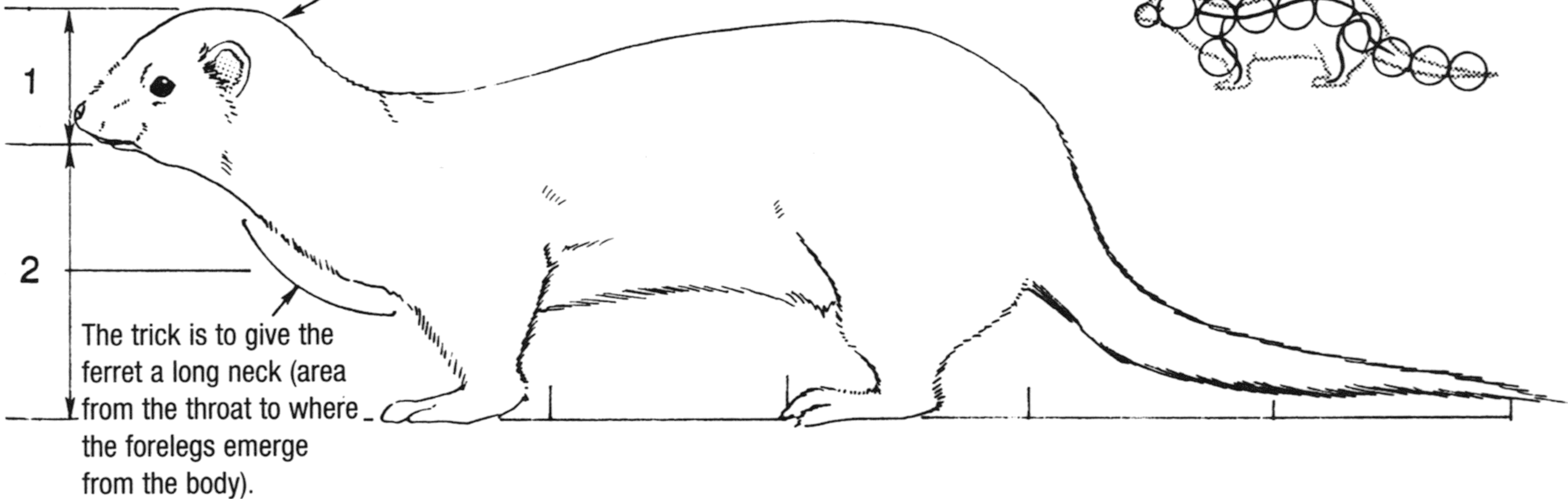


The semicircular ears almost perfectly stay within the face's contours and do not jut out.

The eye protrudes.



Use a sinuous S-curve to connect the crown of the head to the neck to the back.



Tufts of hair at the ears

Give the ferret small, thin, sharp nails.



The toes are longish, taking up about 1/4 of the entire foot.





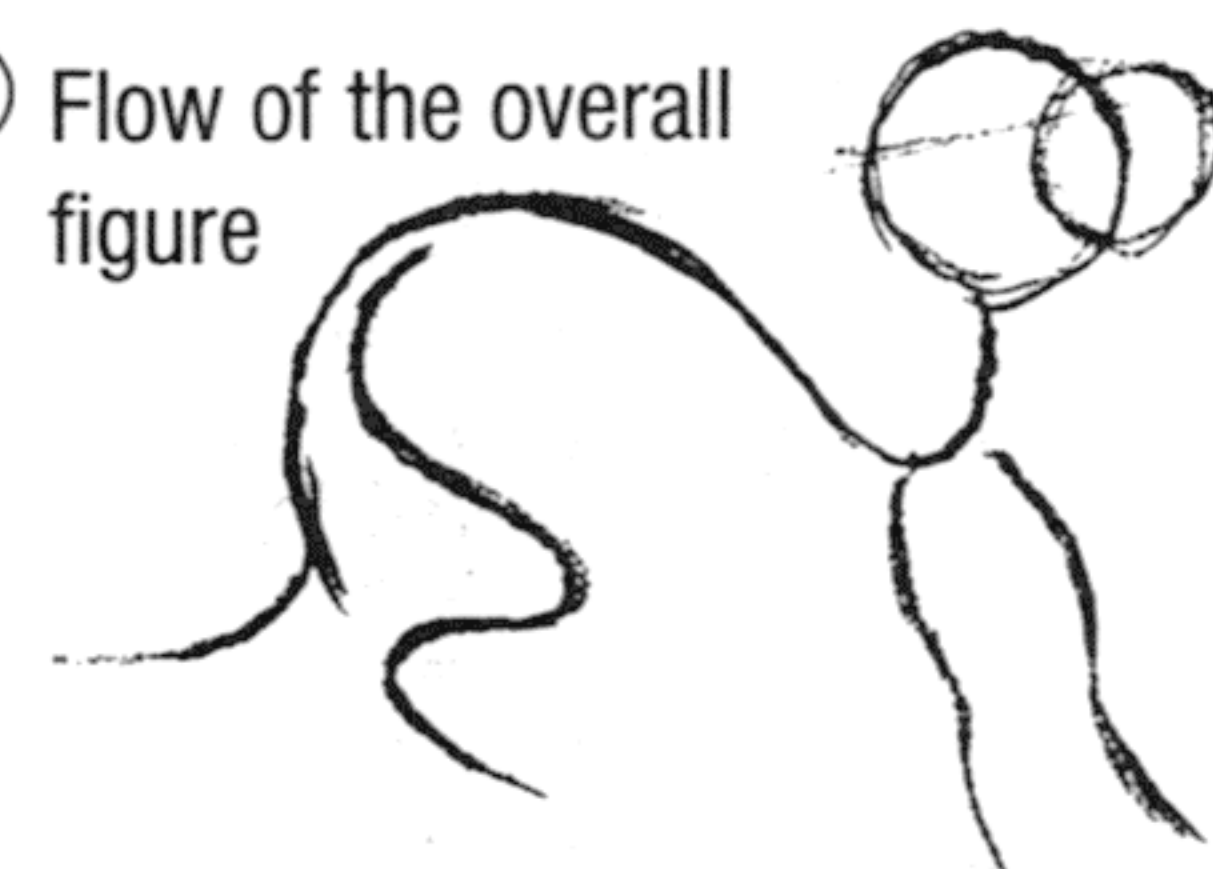
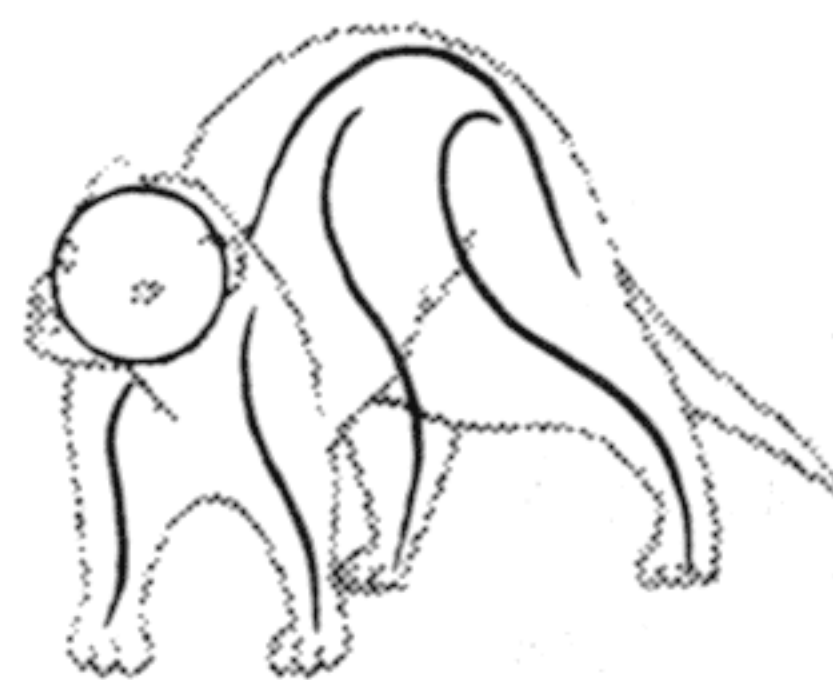
The legs are approximately the same length as the head.

The upper body from the thoracic region up shown from the front: If the trunk is not included, then the figure appears to be a close-up of the front.



From a high, 3/4 angle, the nose does not appear pointed. Use a flattish elliptical form for the snout.

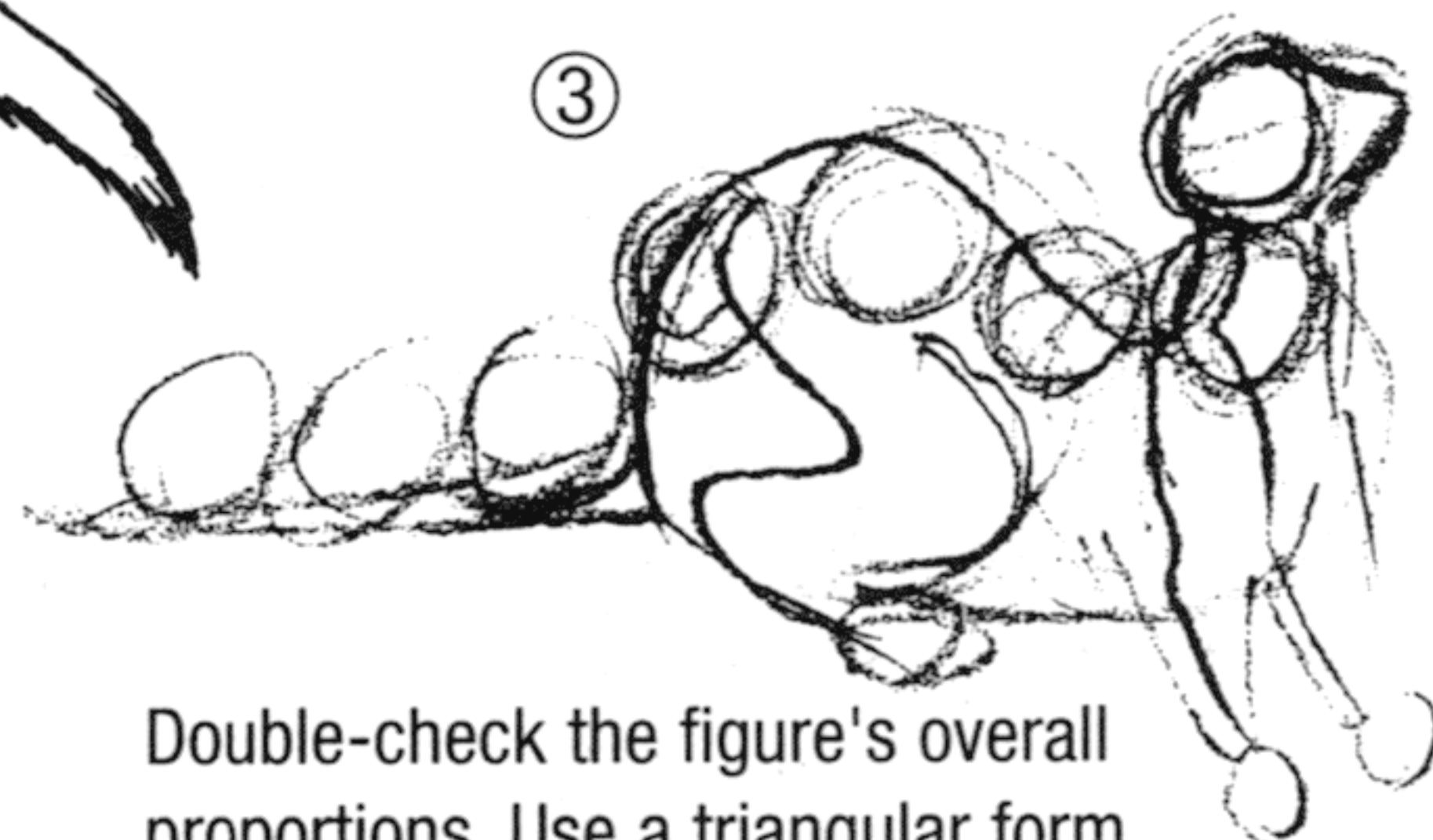
① Flow of the overall figure



Flesh out the sketch and draw a triangle for the snout.

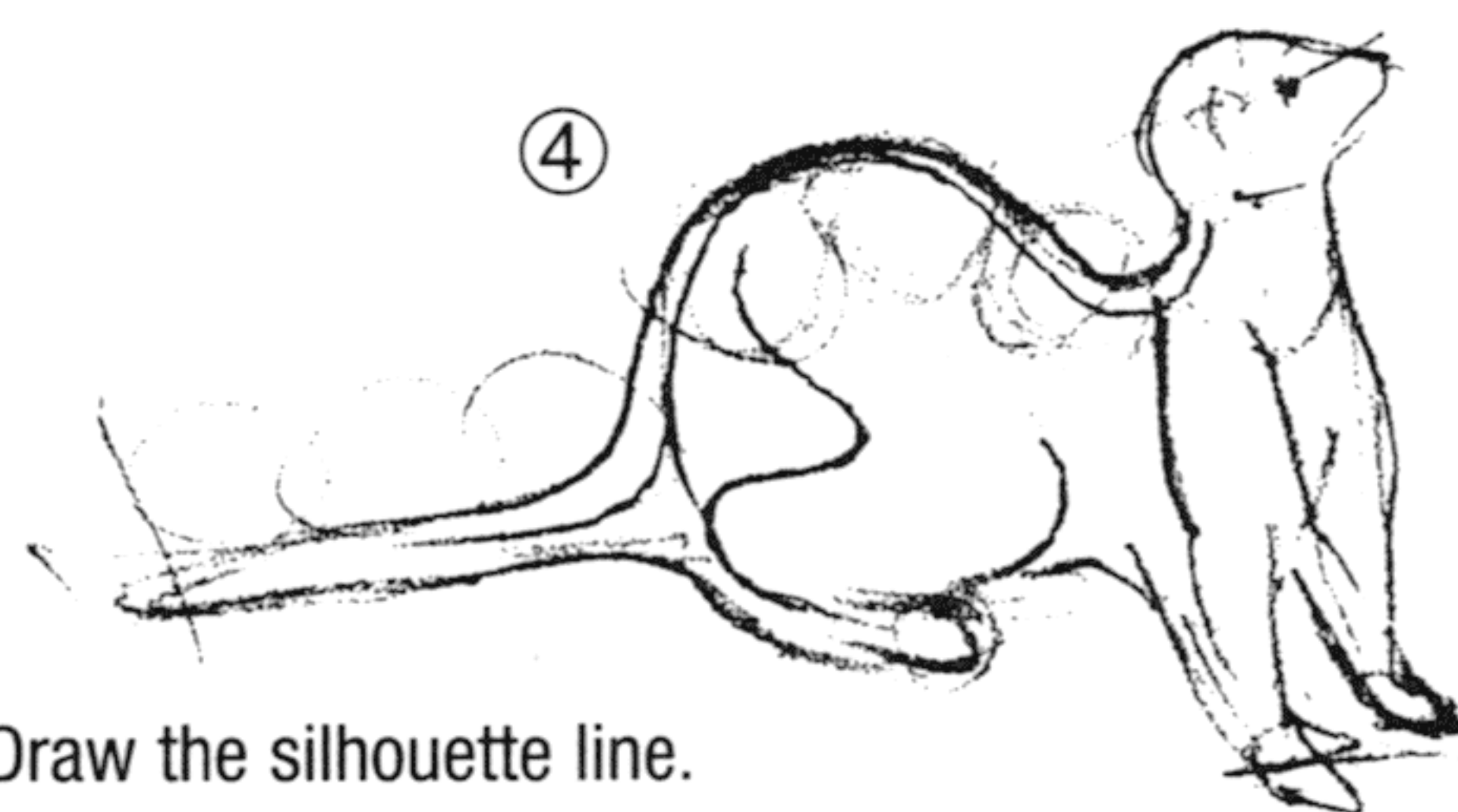


③



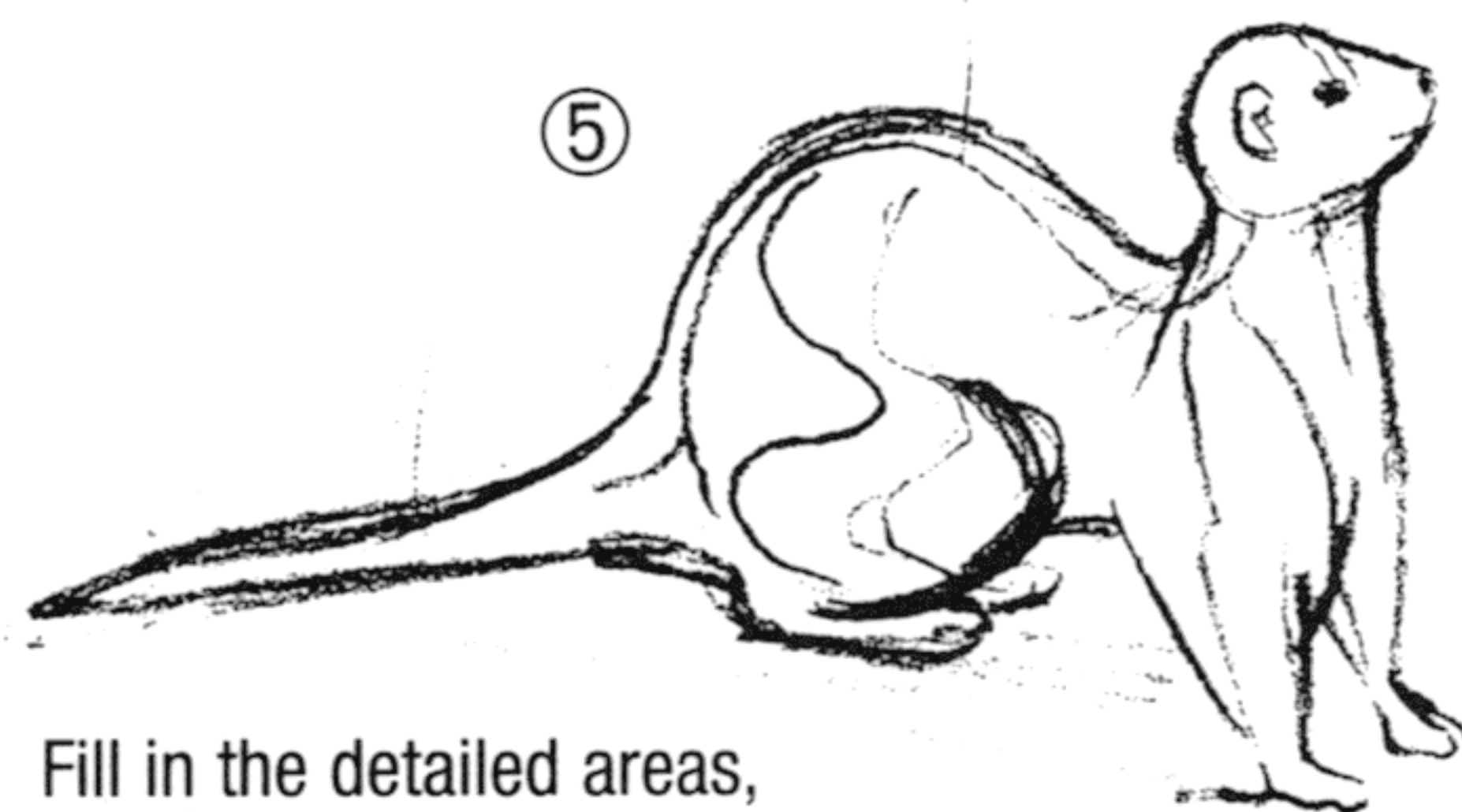
Double-check the figure's overall proportions. Use a triangular form for the legs as well.

④



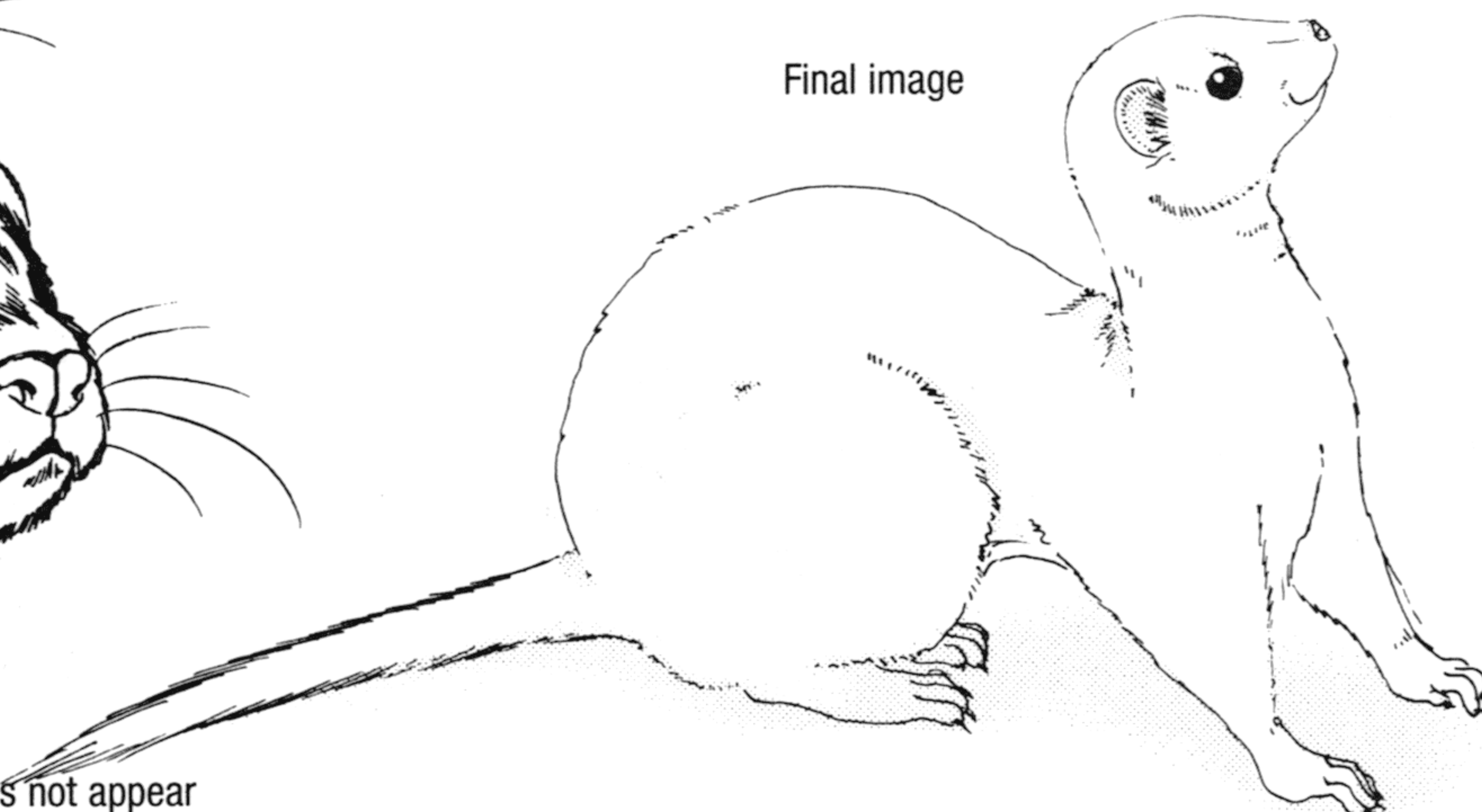
Draw the silhouette line. Add in the eyes and ears.

⑤



Fill in the detailed areas, such as the legs.

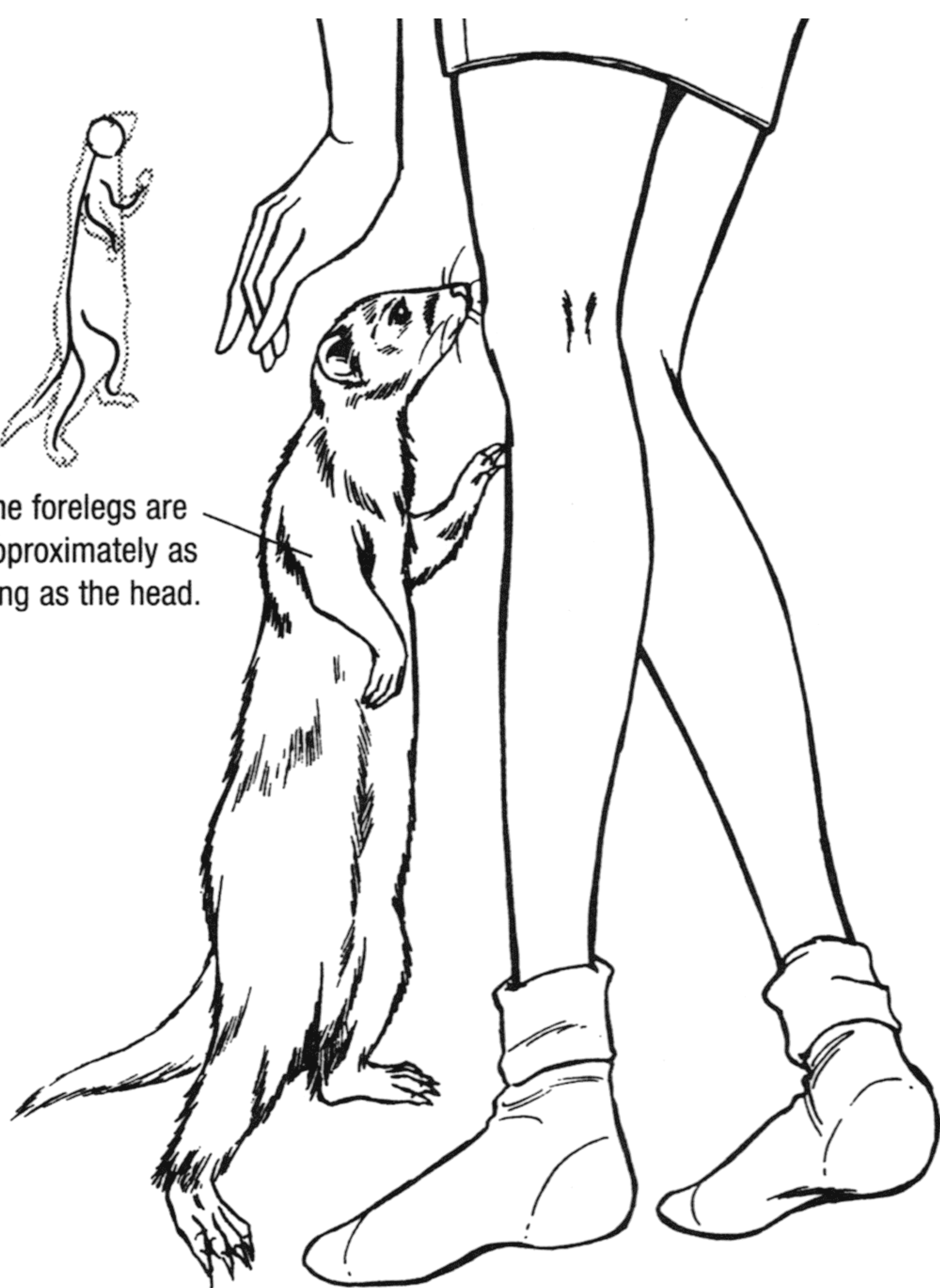
Final image







The forelegs are approximately as long as the head.



## Ferret Colors

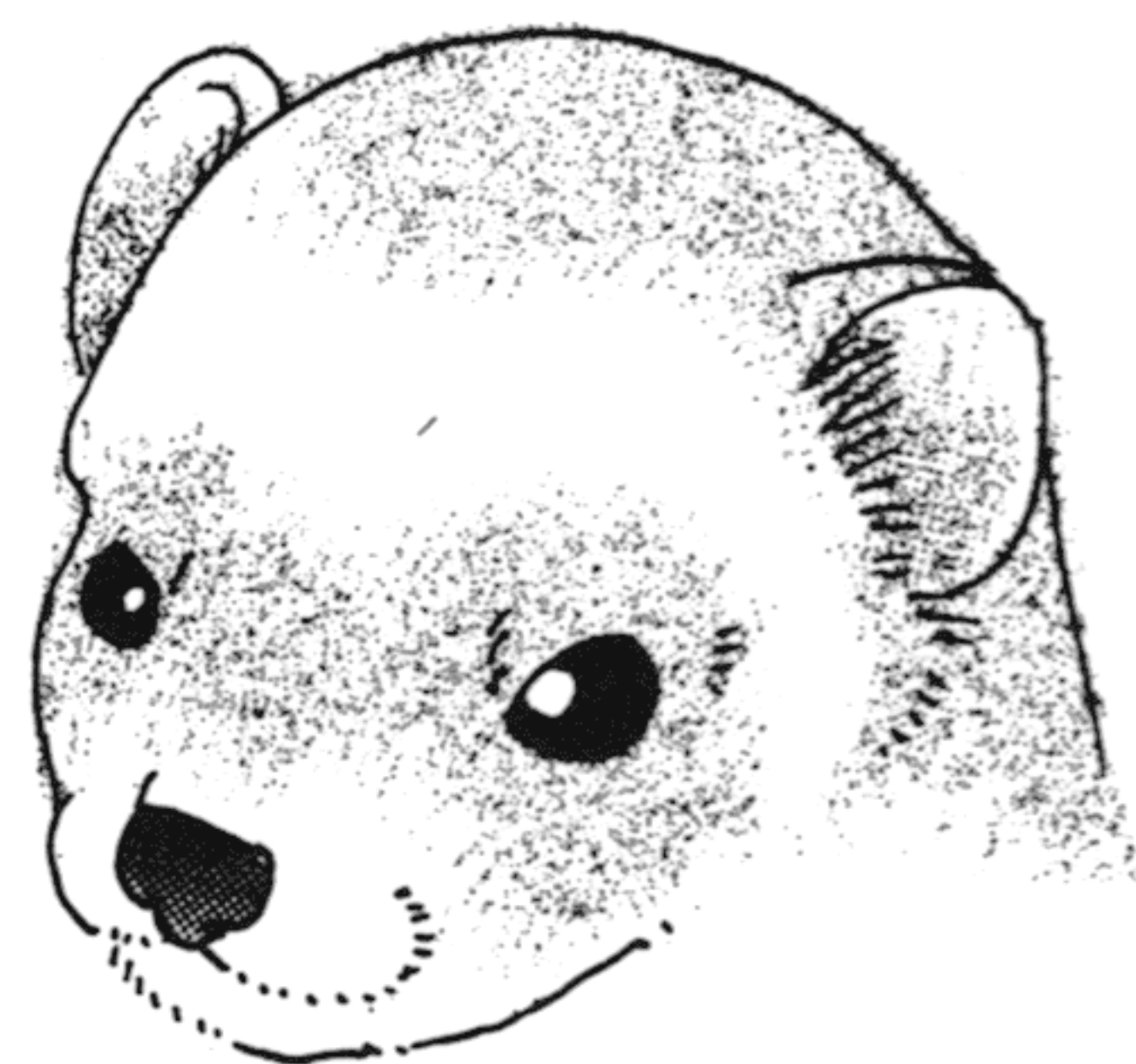
All ferrets have the same shaped head. However, their eye color, fur patterns, and coloration do vary.



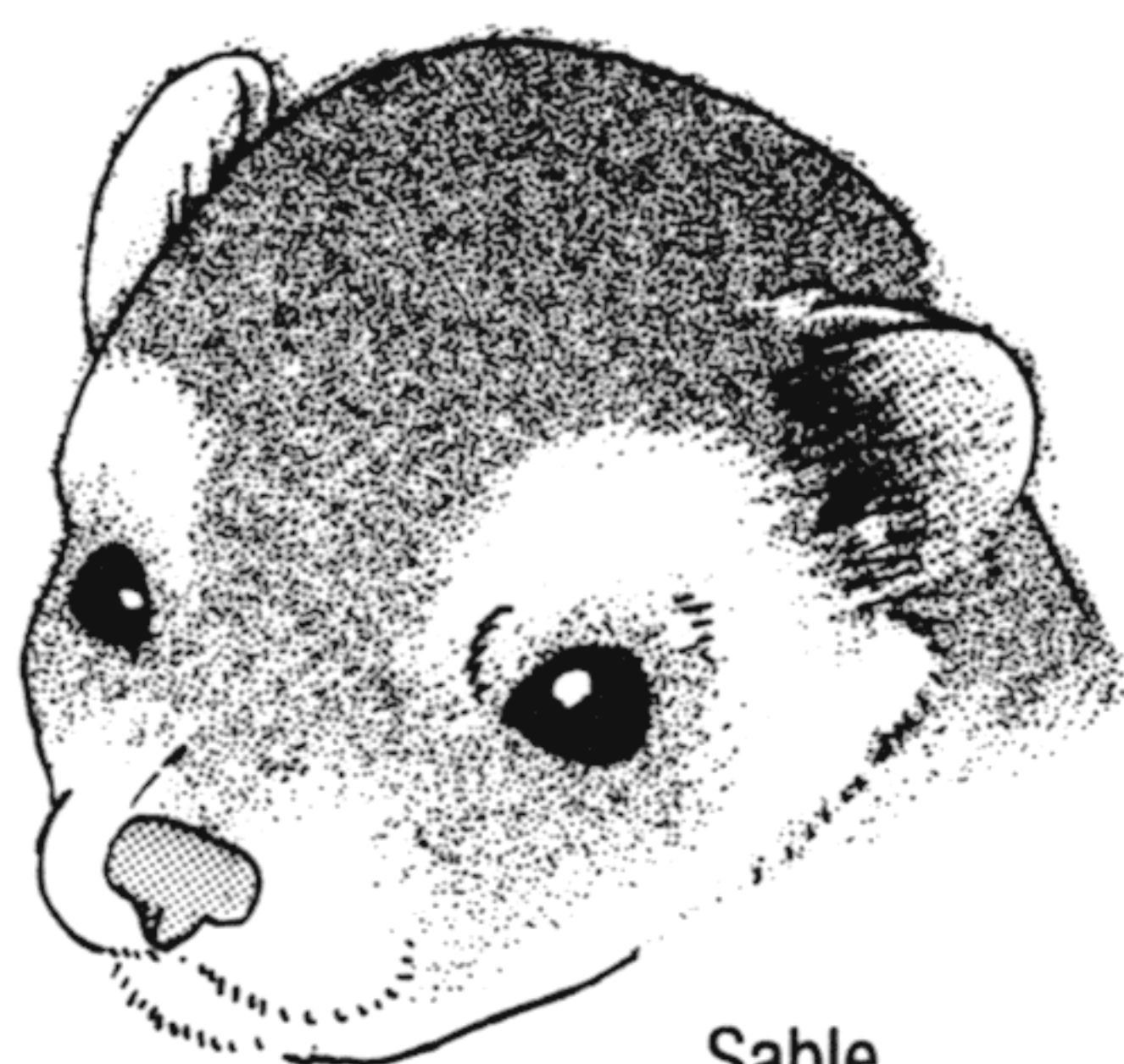
White with black eyes



Albino (red eyes)



Butterscotch



Sable

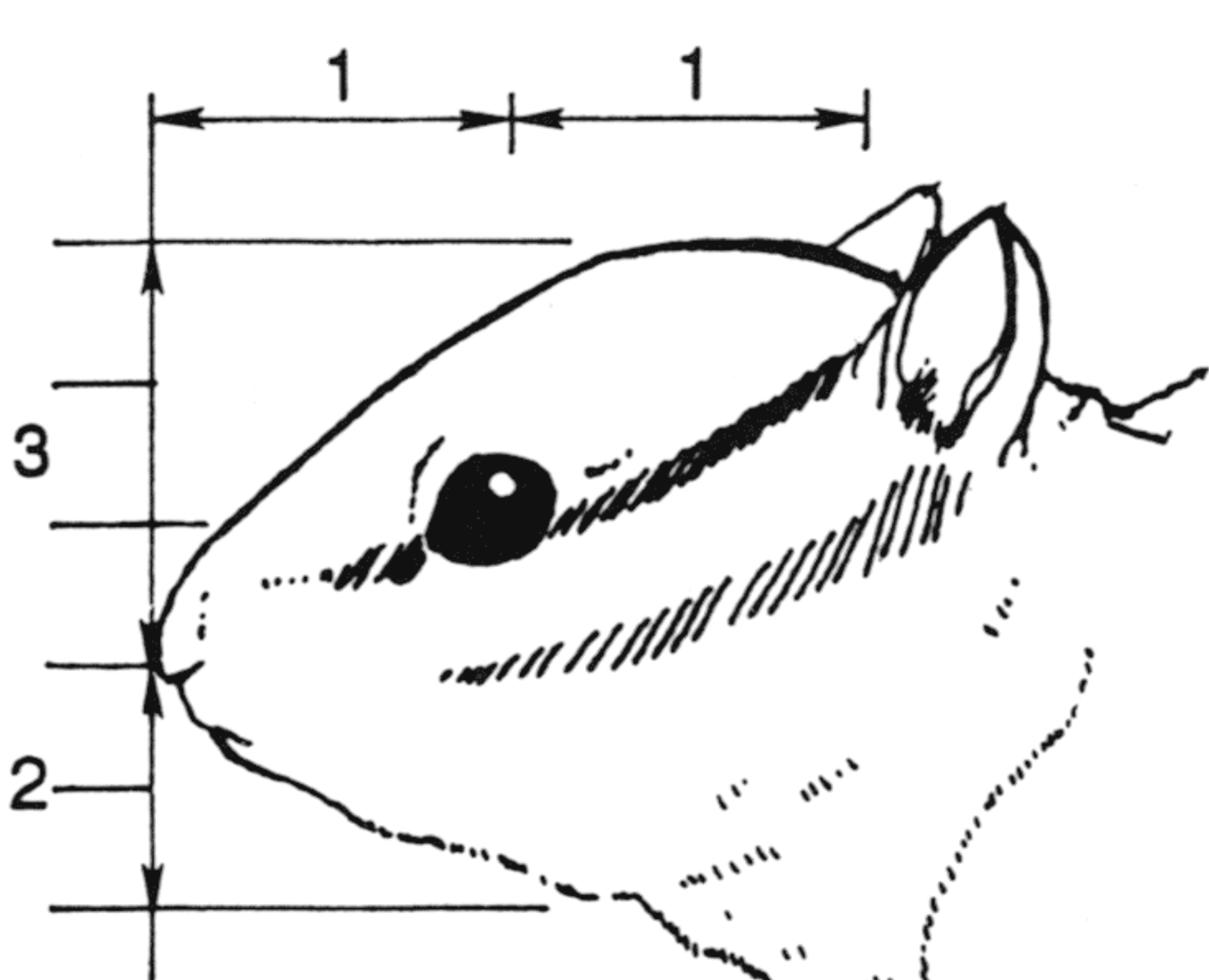


Silver

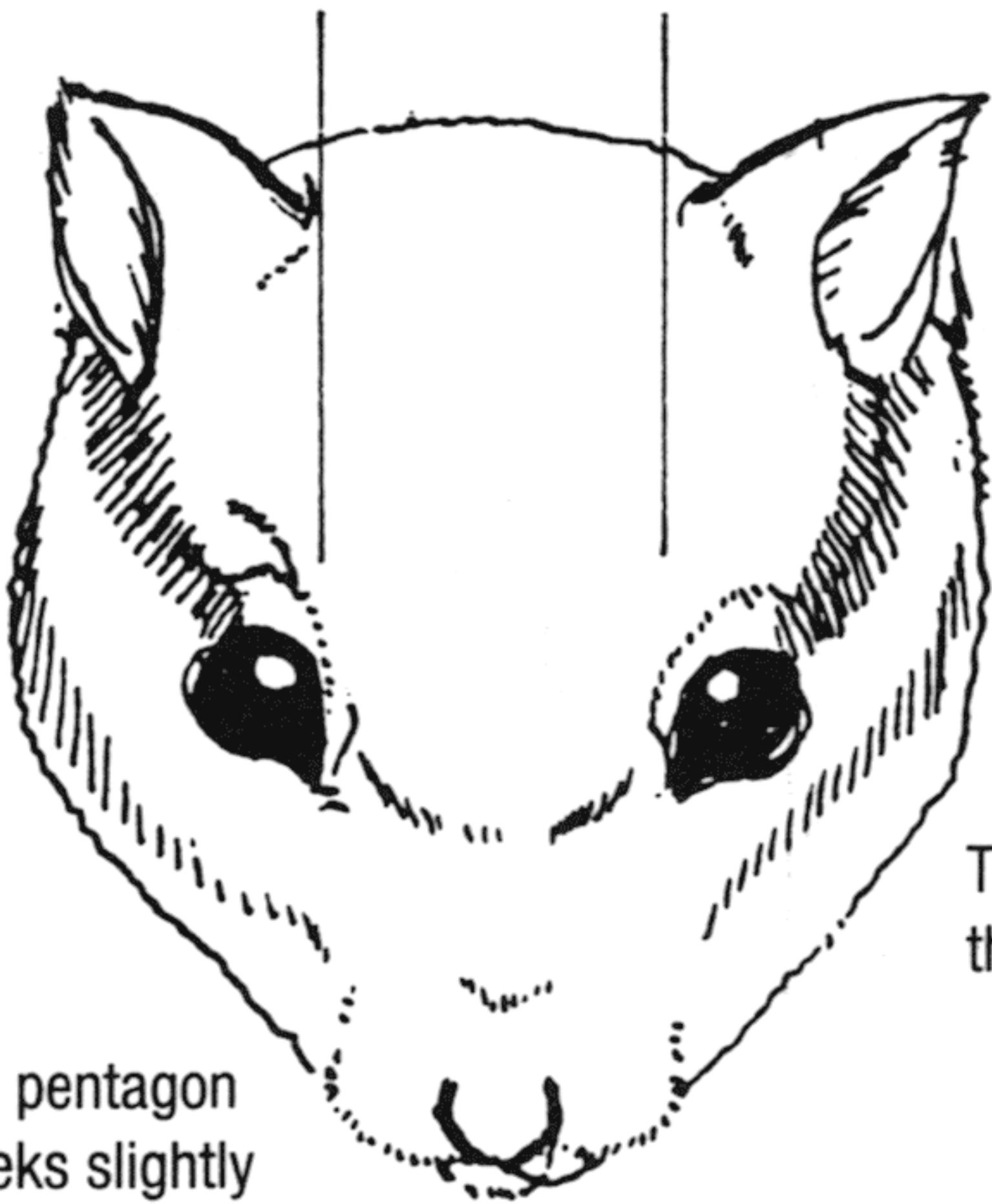


Chipmunks

Draw the head on the large side. The key to drawing a chipmunk is to create a 3-shaped curve with hills and valleys running from the neck down the back.



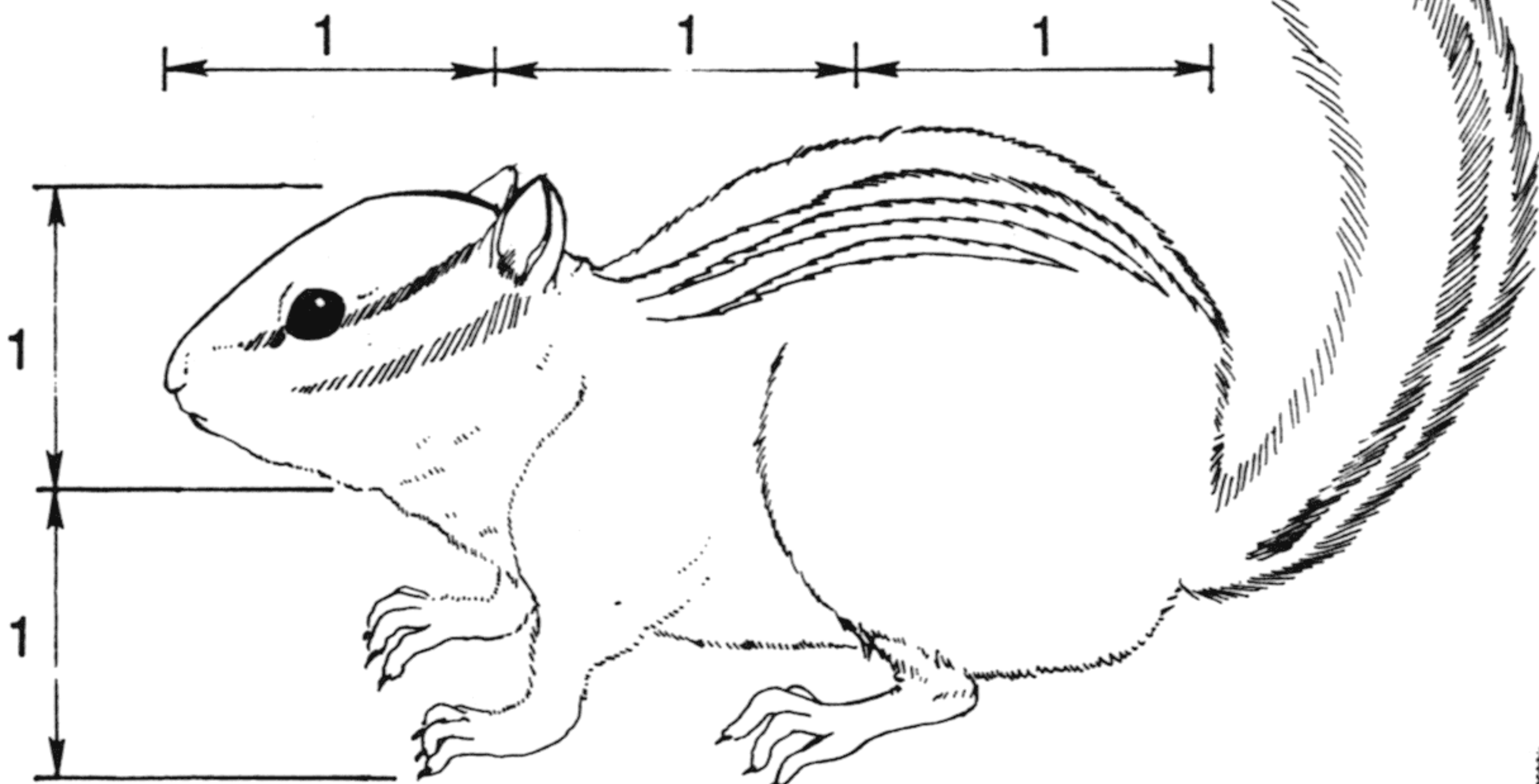
The eyes are a distinct almond shape.



The face is a pentagon with the cheeks slightly puffed.

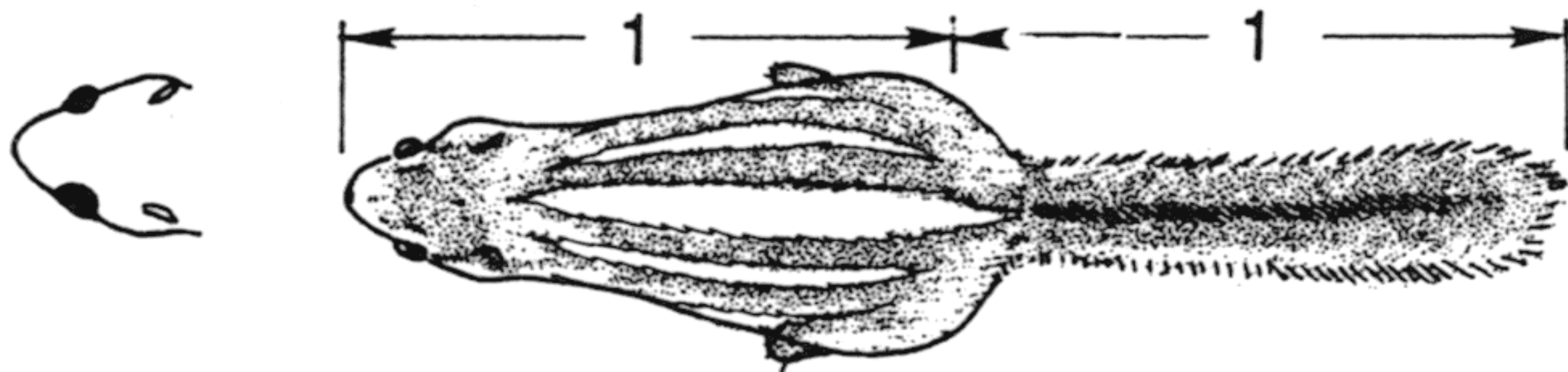


The ears are spaced approximately the same as the eyes.

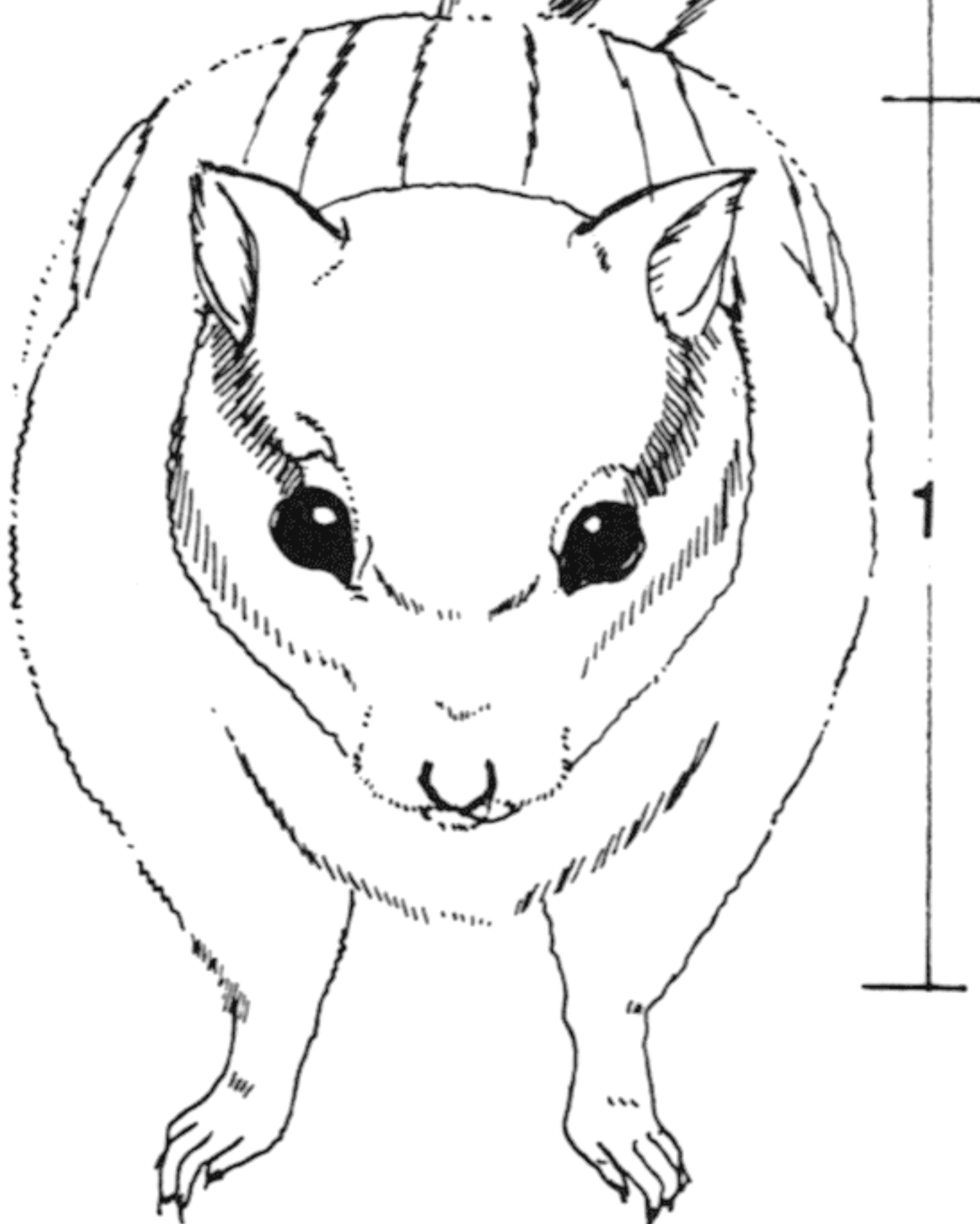


The tail is approximately the same length as the body.

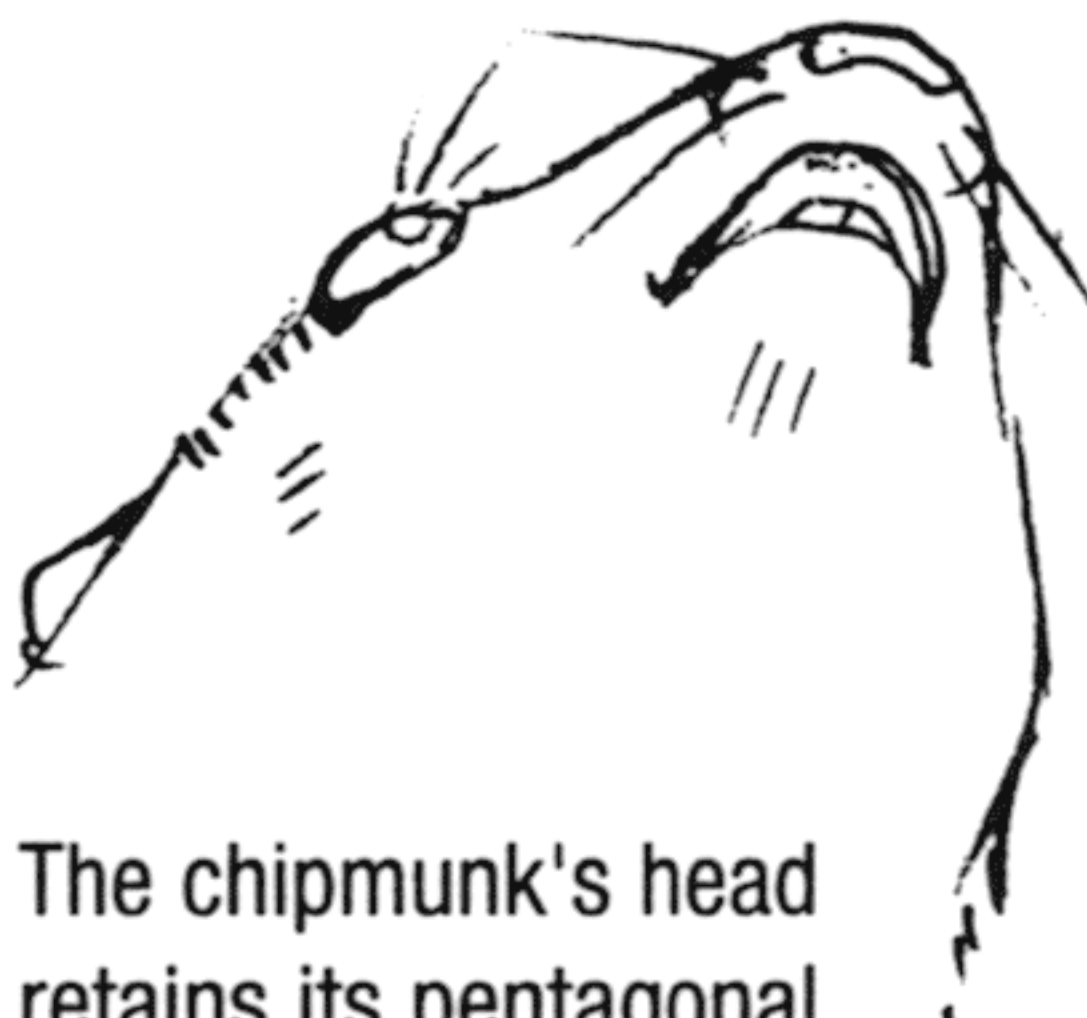
The tail when raised straight up is about twice the height of the body.



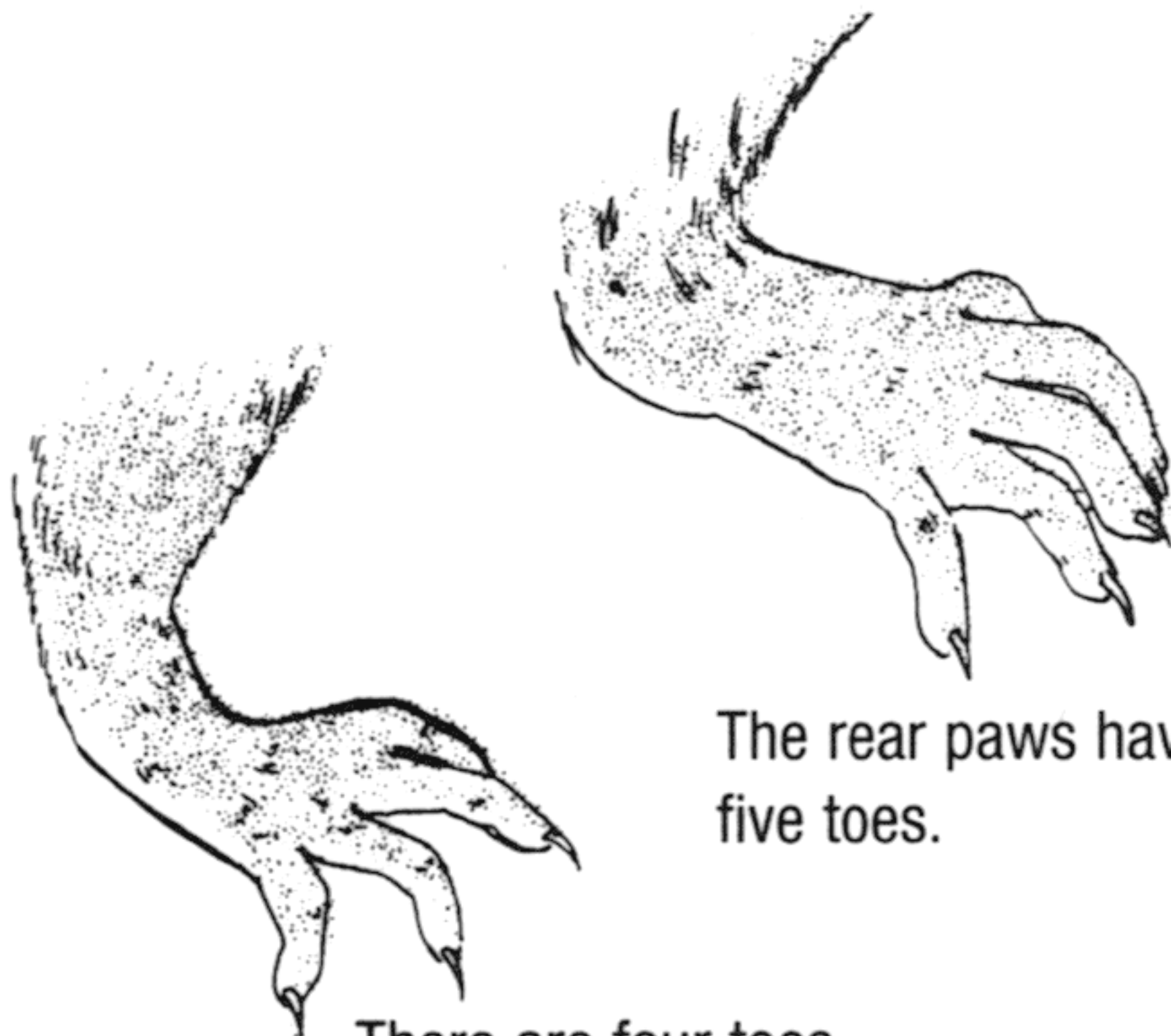
The back sports three stripes, while the sides, two (each).



The mouth is narrow underneath the nose.



The chipmunk's head retains its pentagonal shape even from a low angle.

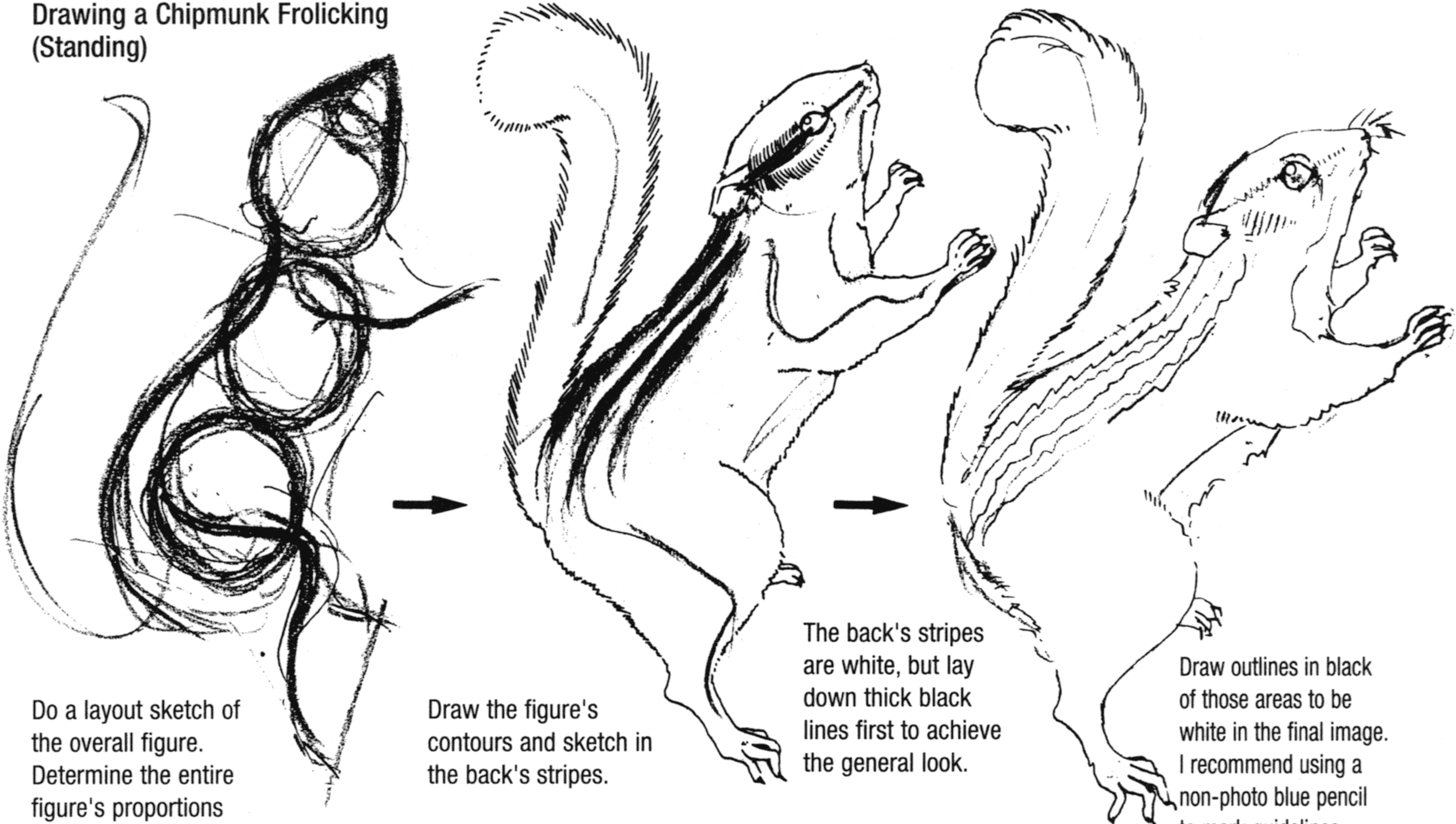


There are four toes on the front paws.

The rear paws have five toes.



Drawing a Chipmunk Frolicking (Standing)



Do a layout sketch of the overall figure. Determine the entire figure's proportions according to the head's size.

Draw the figure's contours and sketch in the back's stripes.

The back's stripes are white, but lay down thick black lines first to achieve the general look.

Draw outlines in black of those areas to be white in the final image. I recommend using a non-photo blue pencil to mark guidelines when you are planning on using tone.

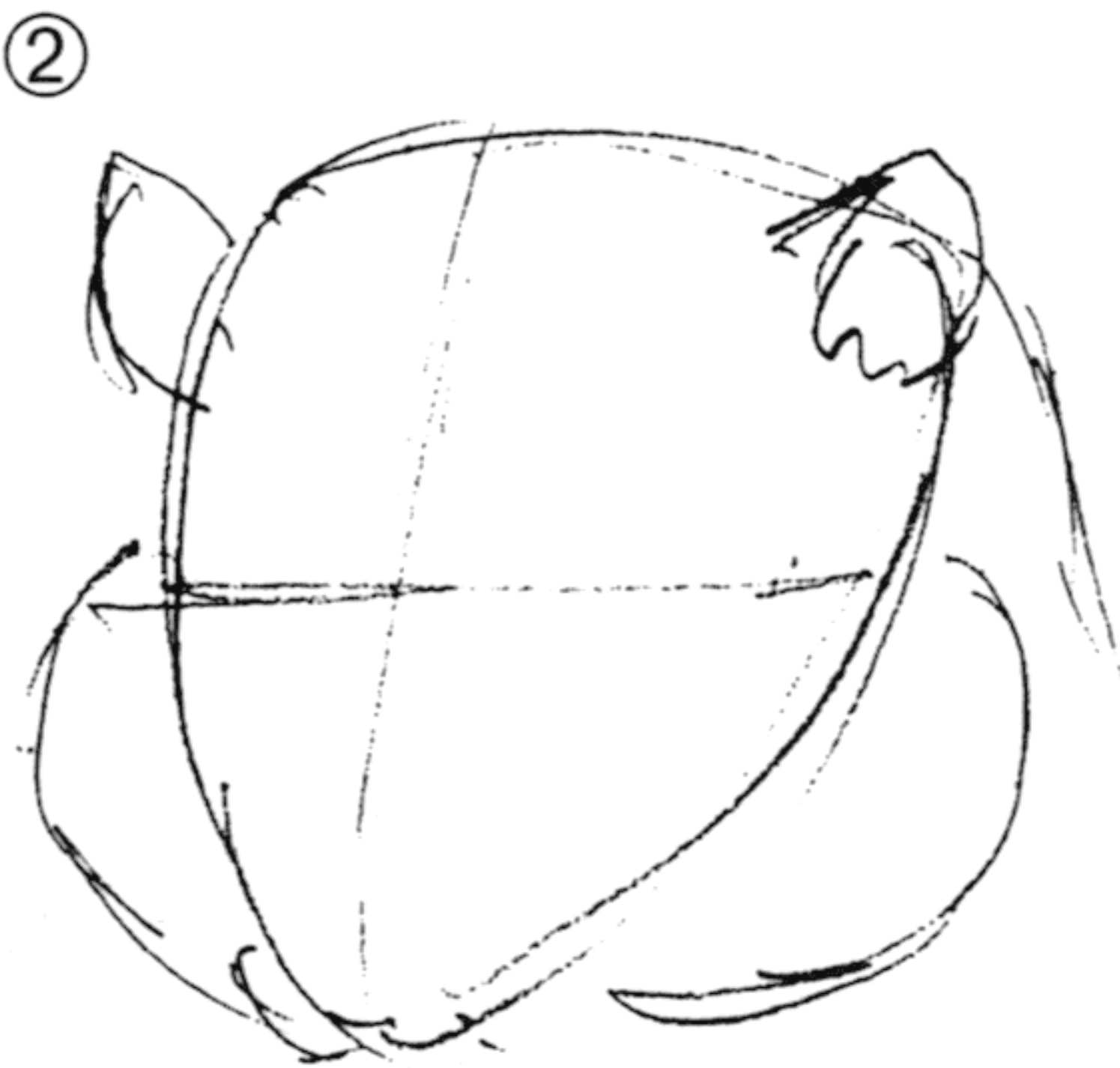




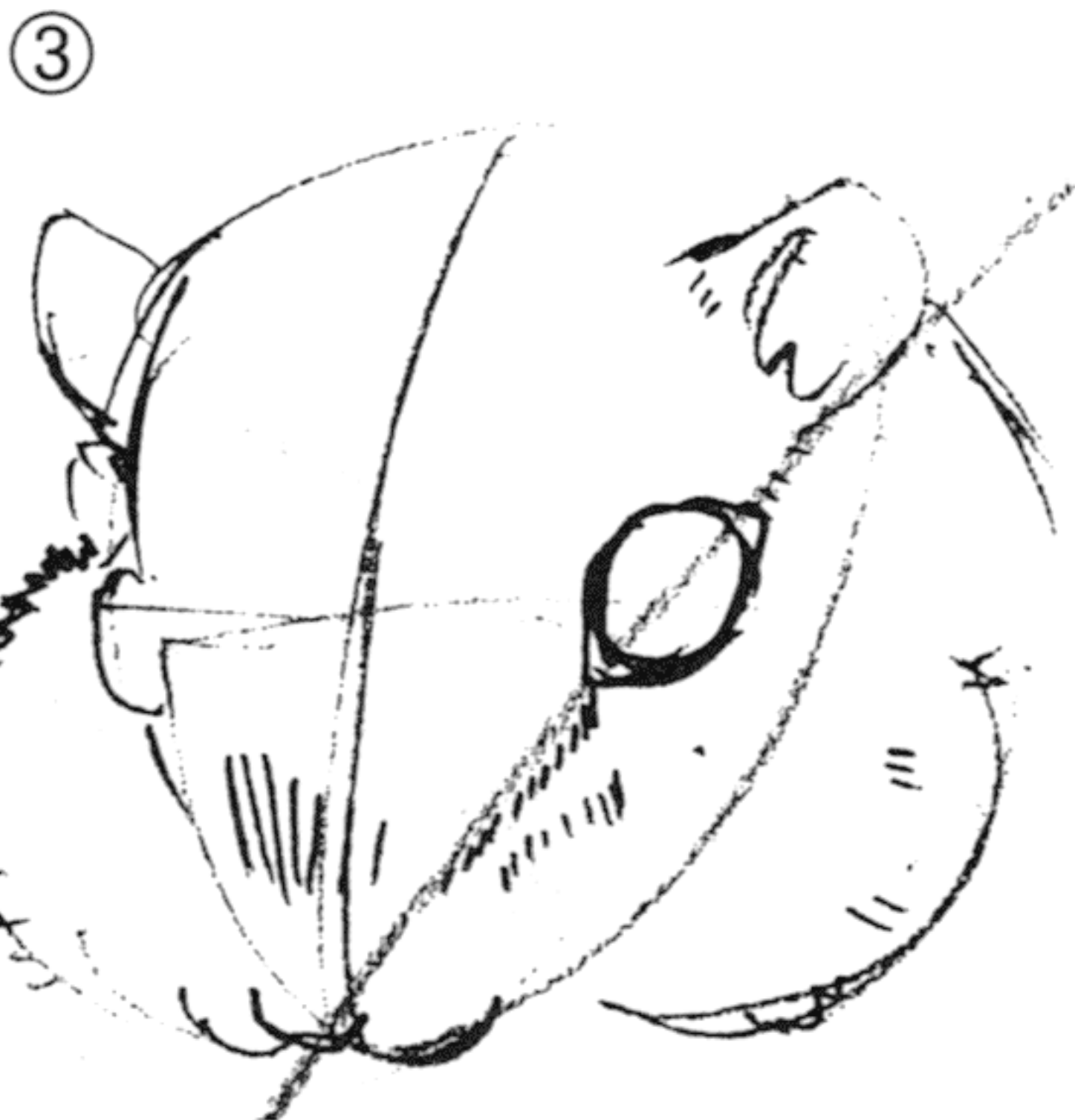
Drawing a Chipmunk with Full Cheek Pouches



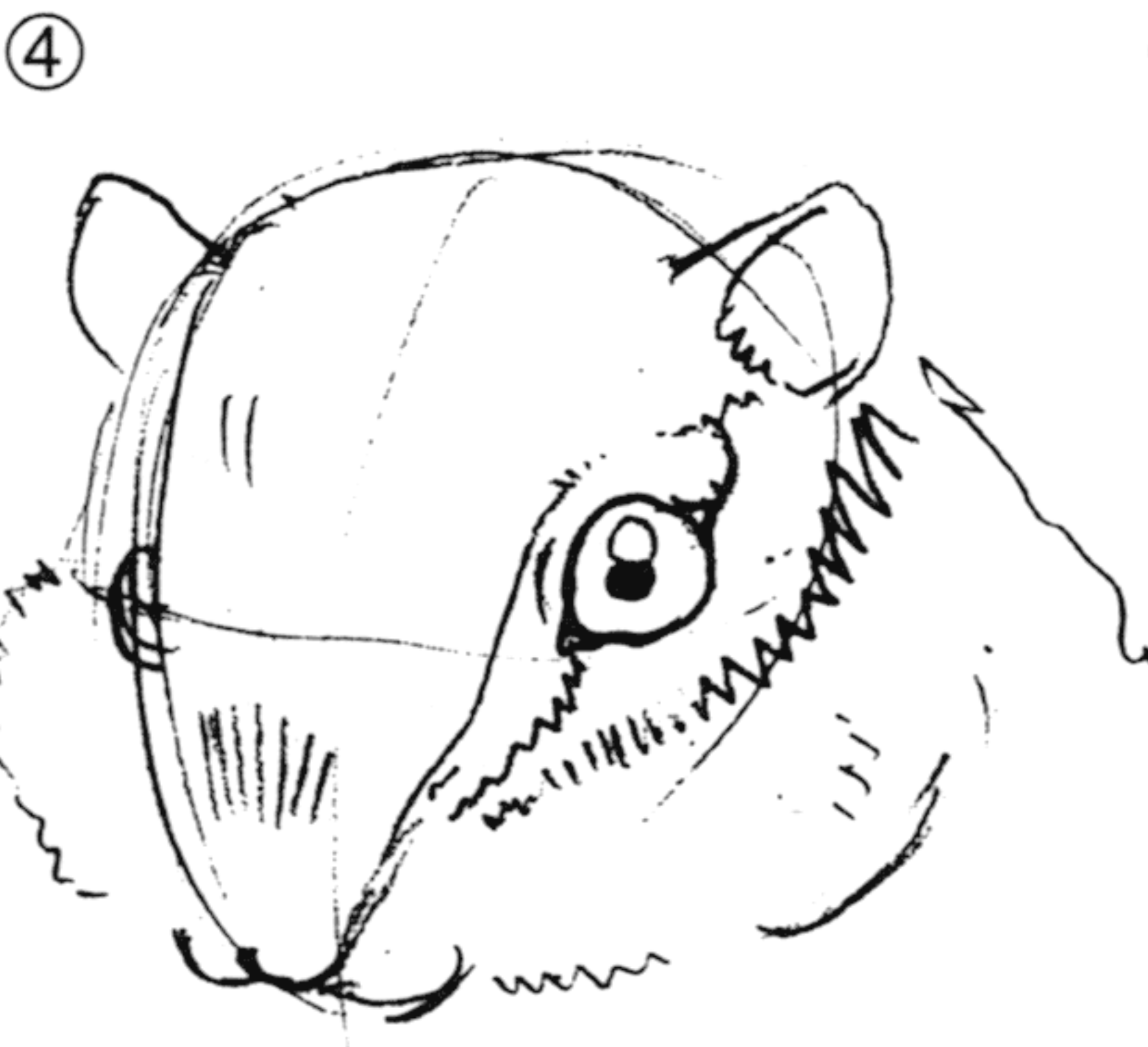
Draw an upside-down triangle.



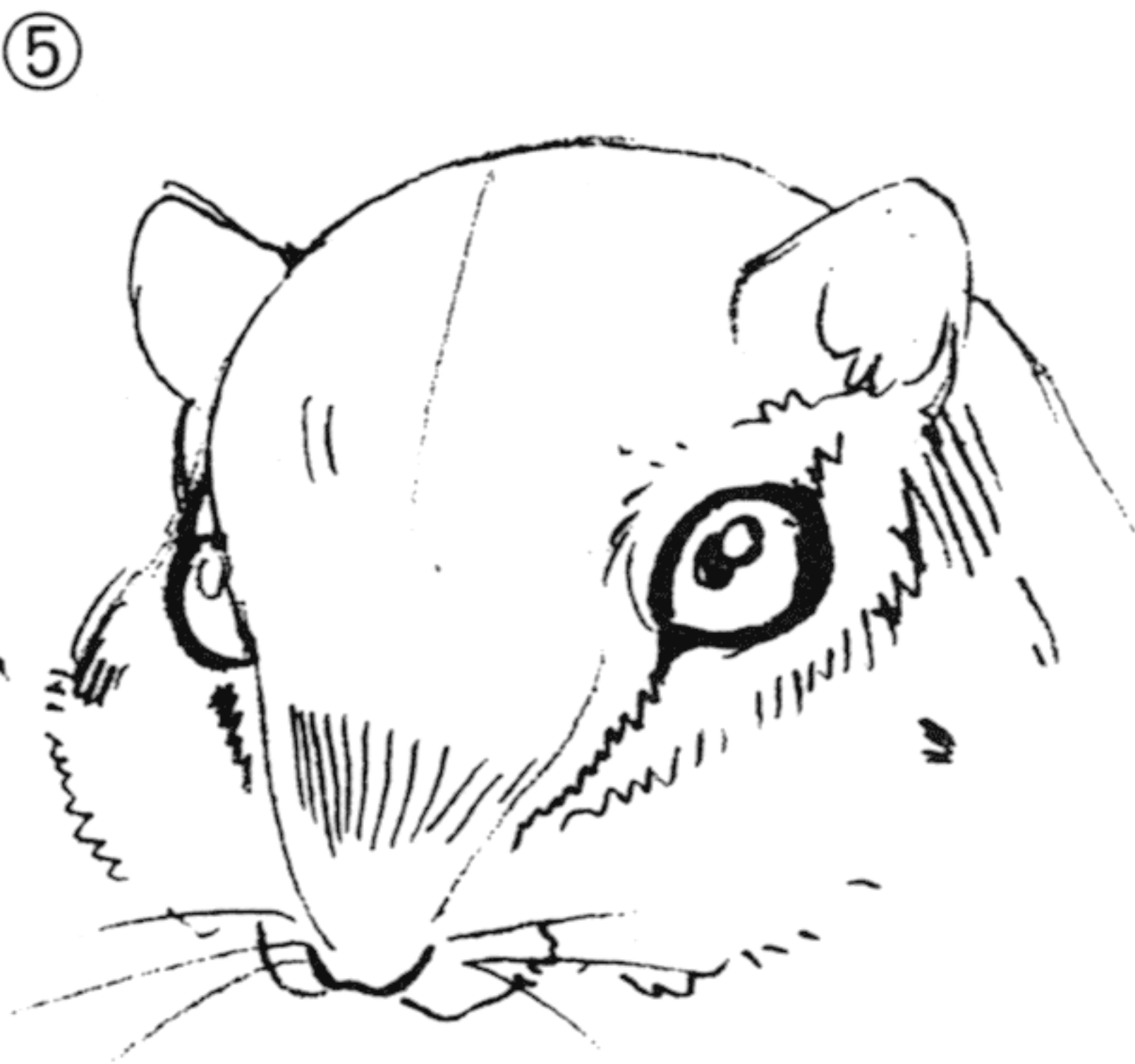
Draw the ears and semicircles for the cheek pouches.



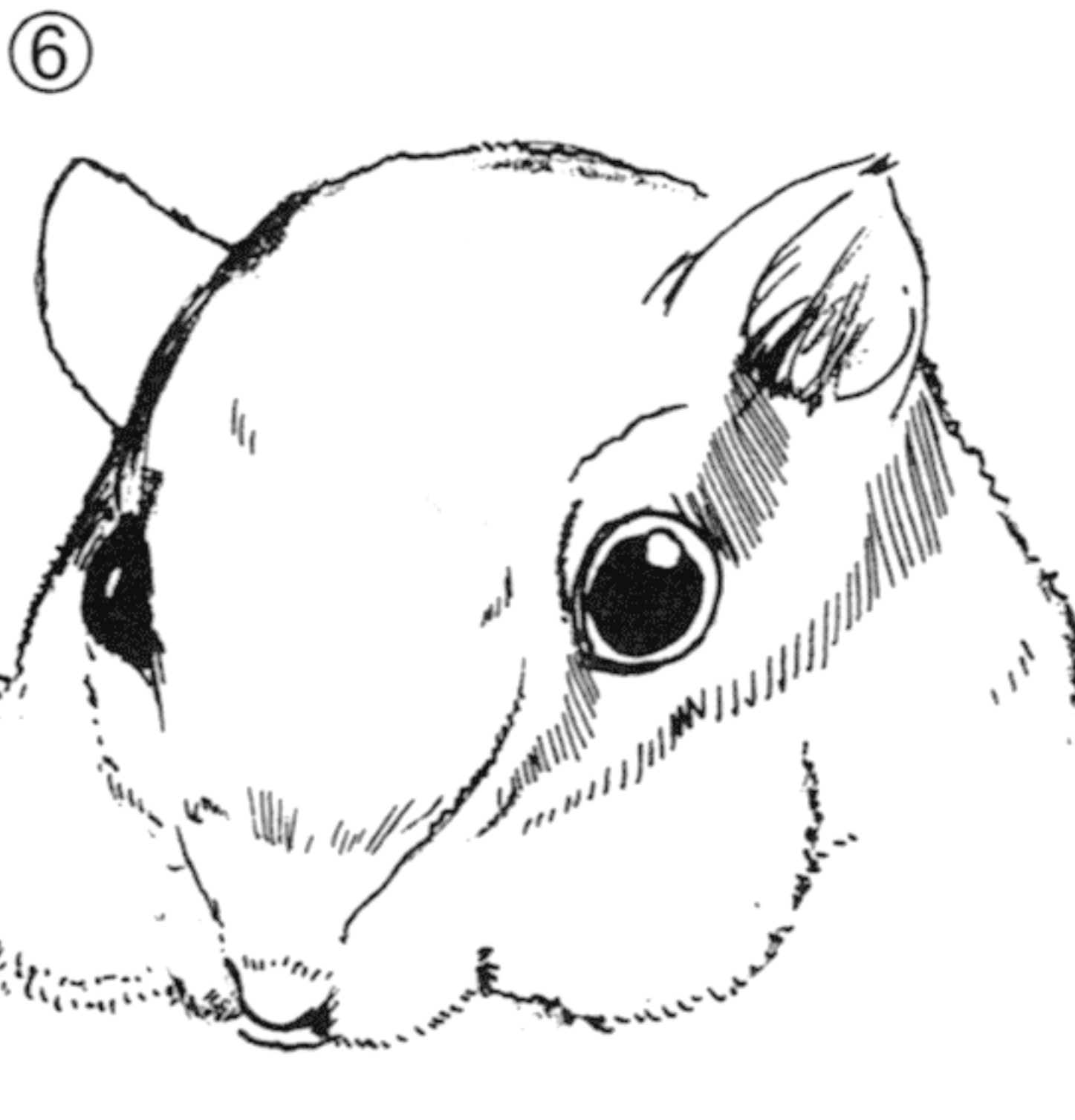
Draw the eyes along a line connecting the nose to the base of the ears. The mouth should form a "W", while the nose forms a "U".



Use zigzagging lines for the cheeks' contours to make them appear fuzzy.



Add whiskers to the sides of the nose. You may omit these in the final image.



Complete the silhouette and the details and blacken the eyes to finish.



Be sure to alternate white stripes with dark brown stripes.

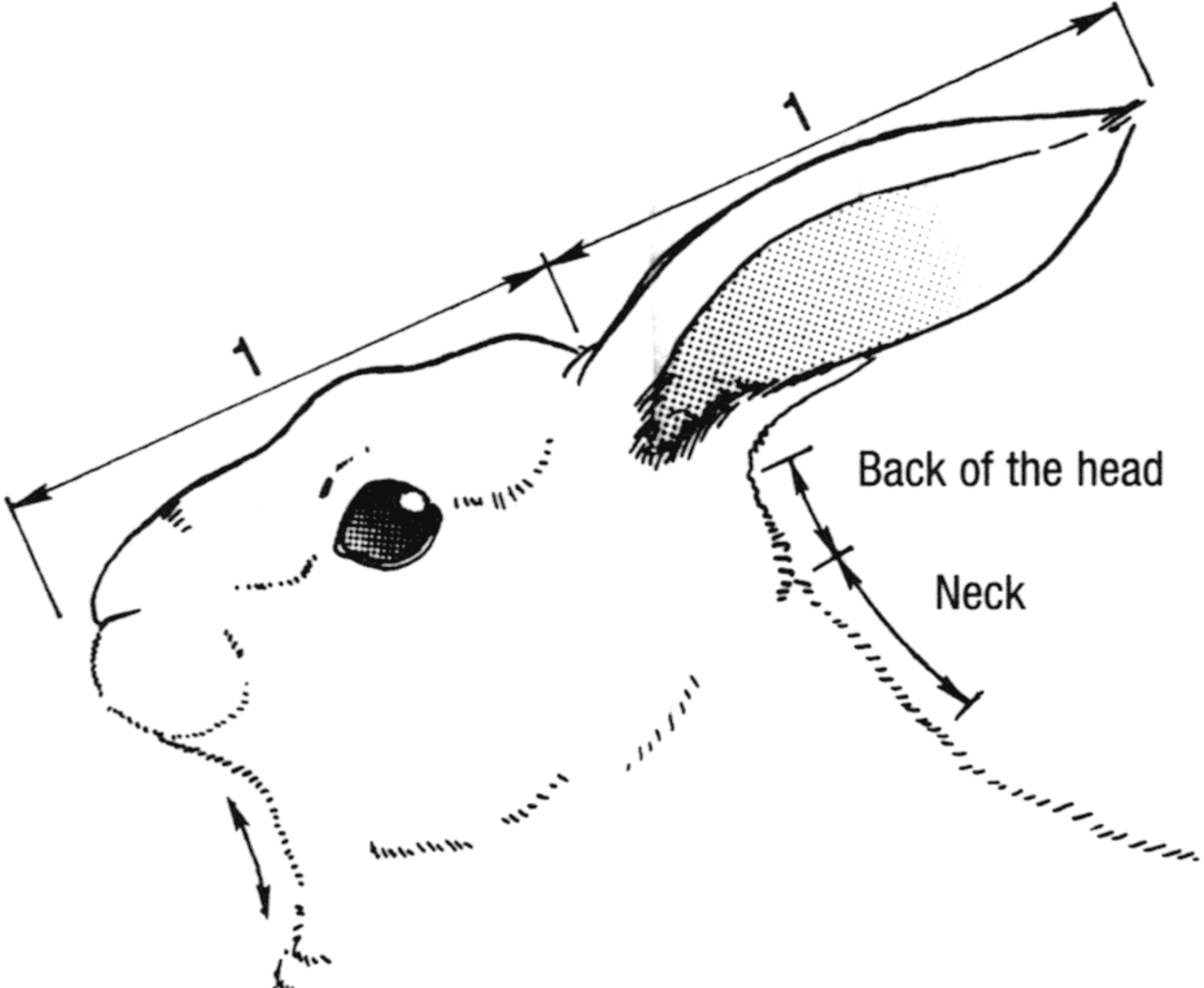


Cheek pouches

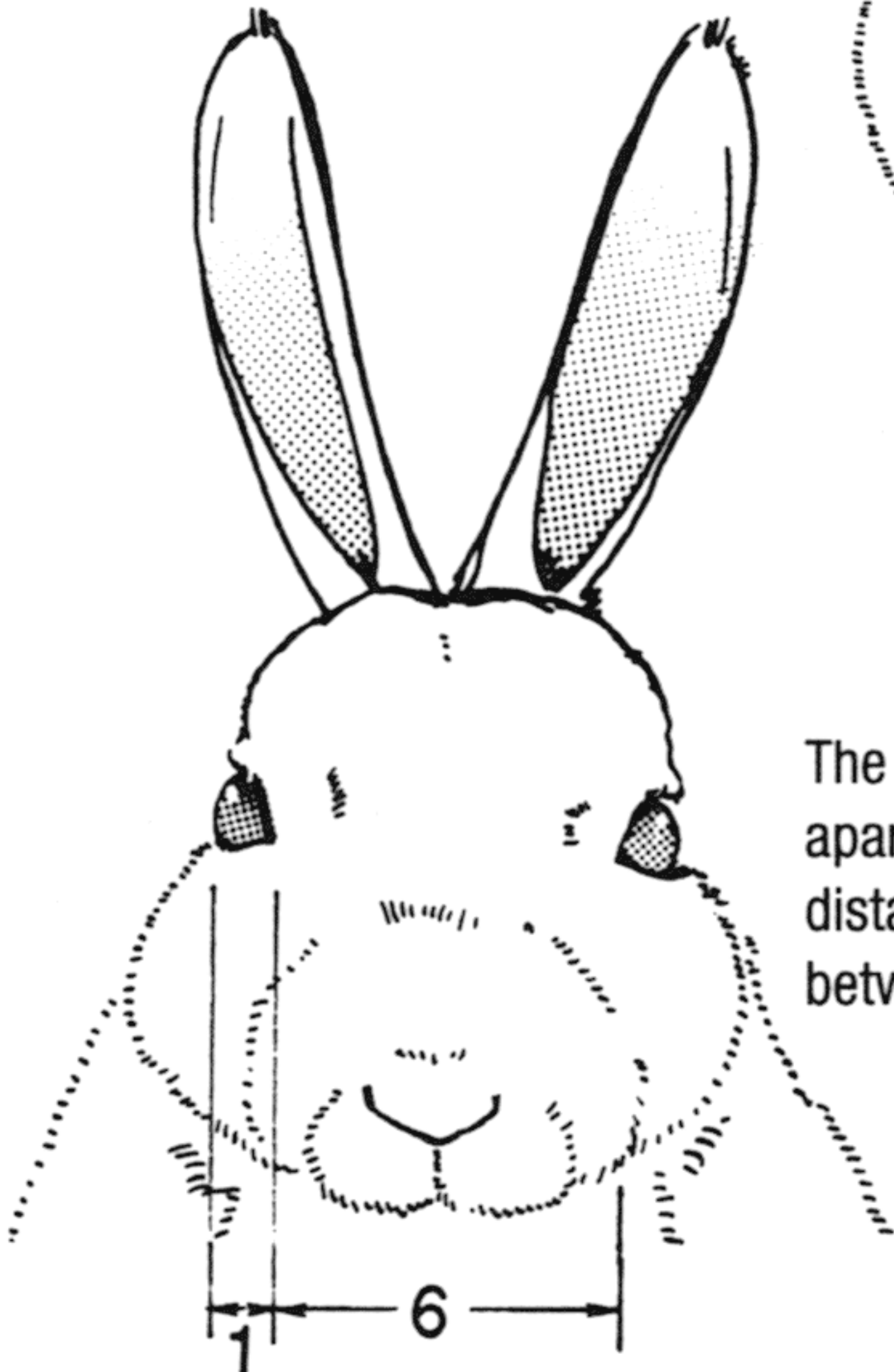


Rabbits

This is a full-cheeked, trapezoidal head with the ears about as tall as the head.

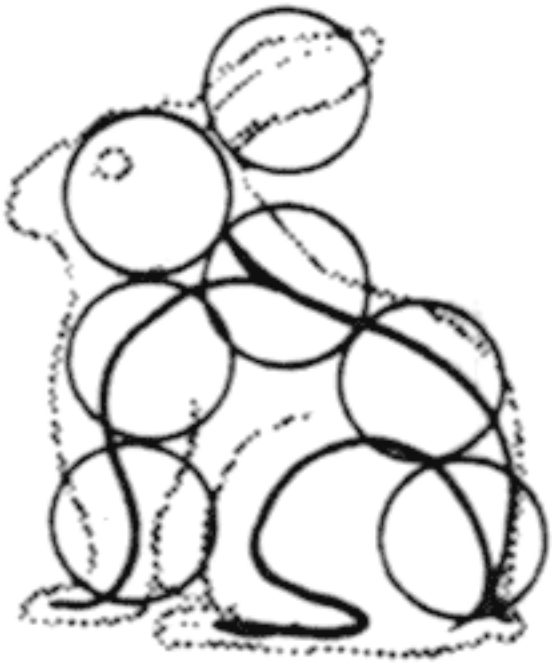
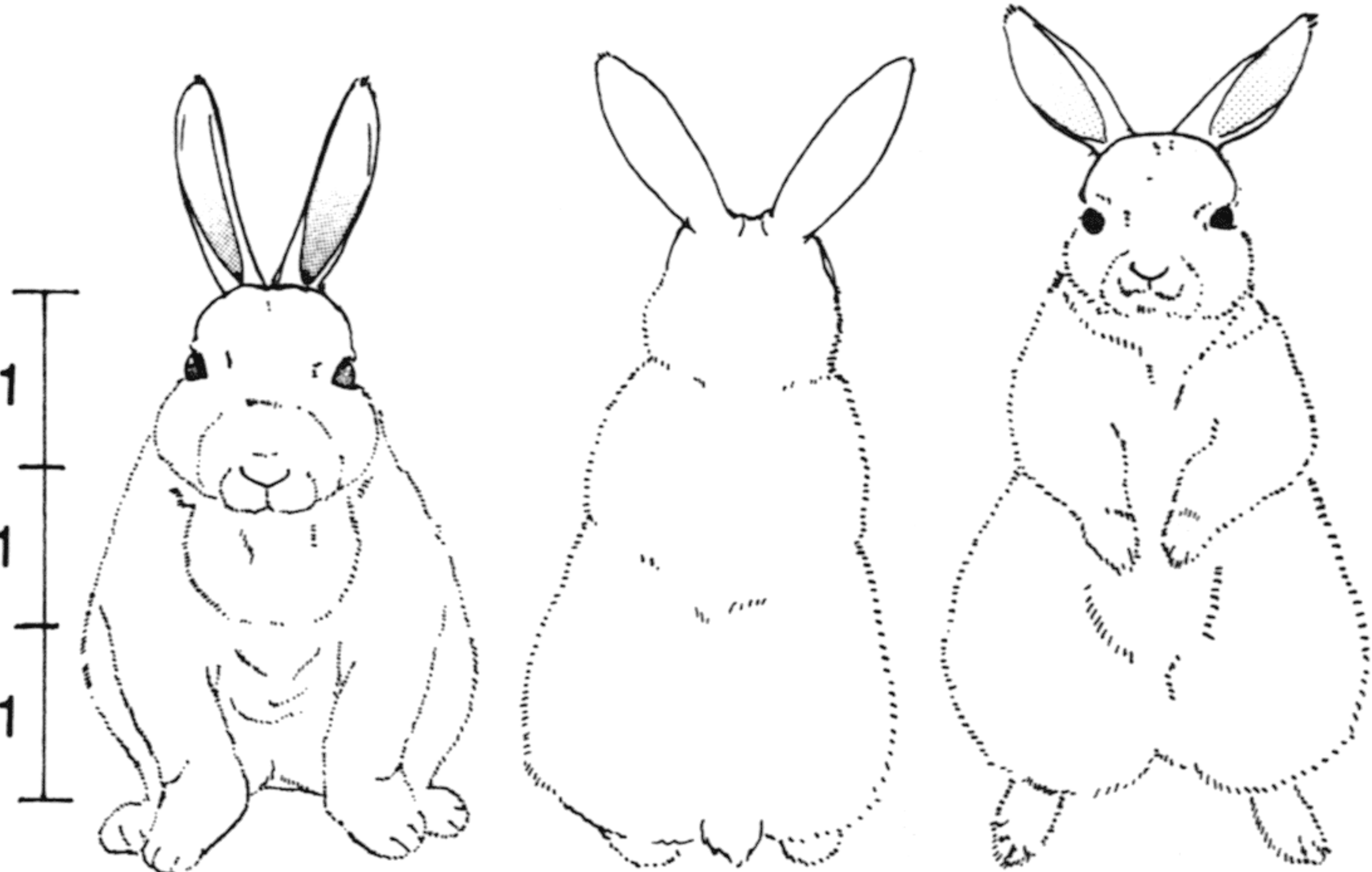
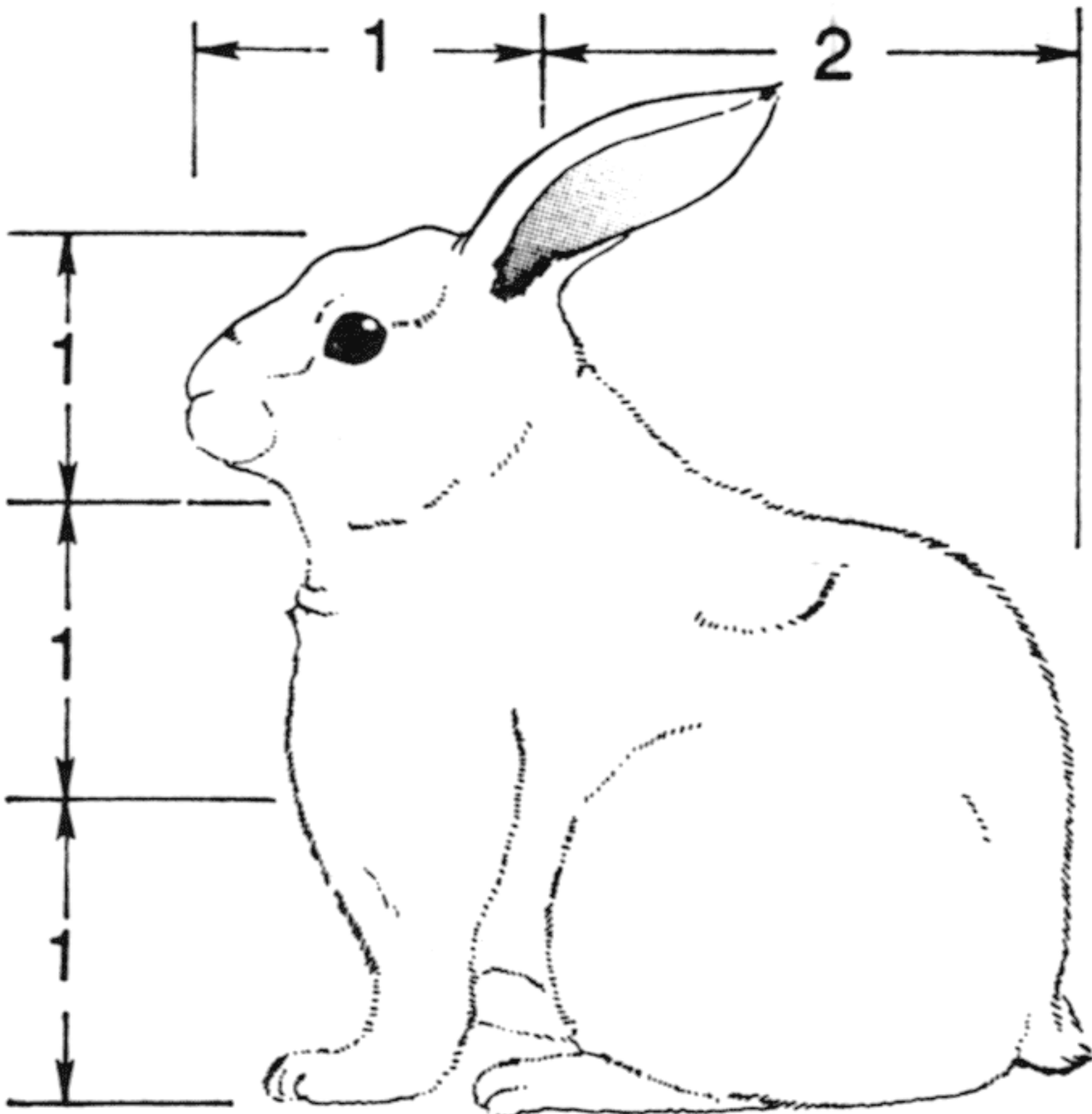


The throat is short.

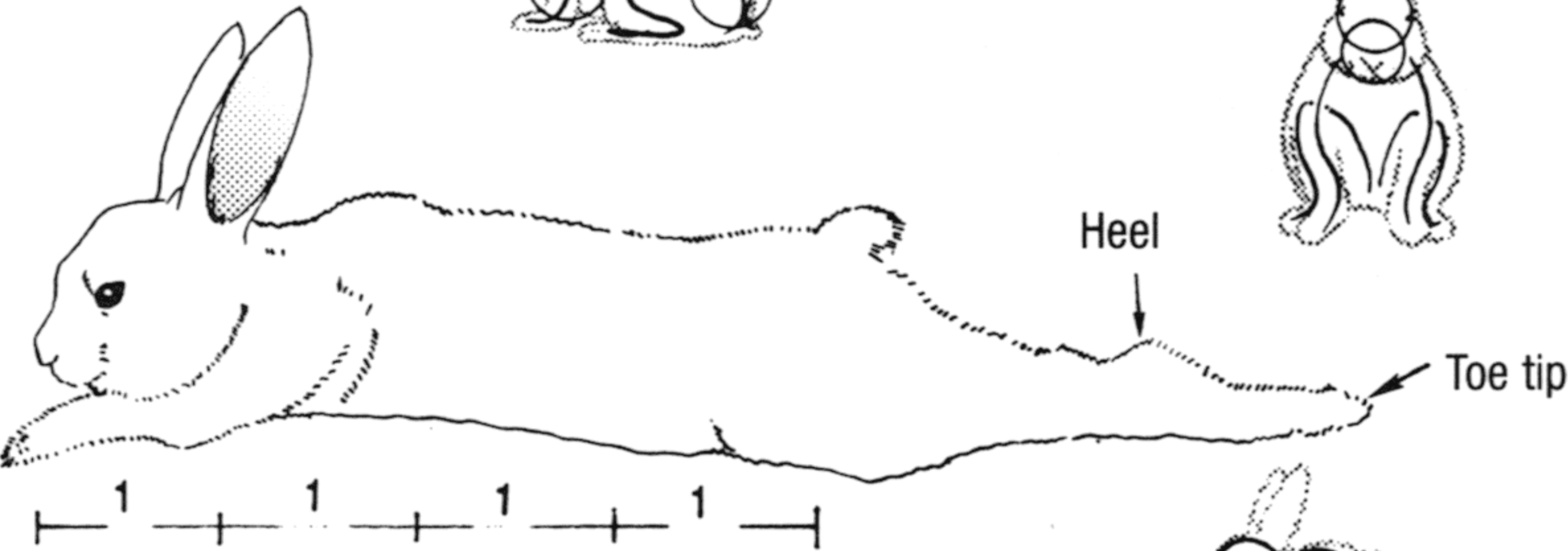


Nose and mouth

The eyes are spaced far apart with the equivalent distance of size eyes between them.



The hind legs occupy about 2/3 of the body.



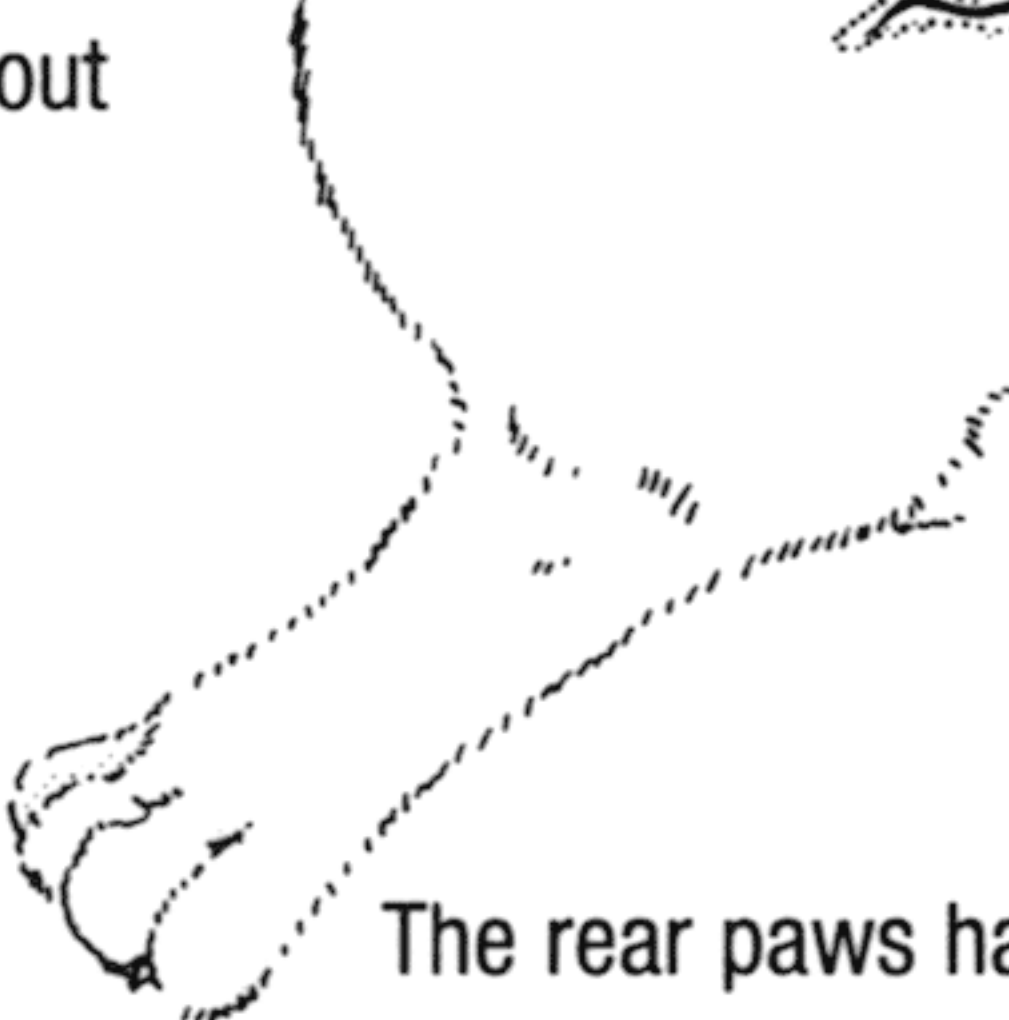
Stretched out, the body is about four heads in length, while the legs are about three heads long.



The feet should be about the same length as the ears.



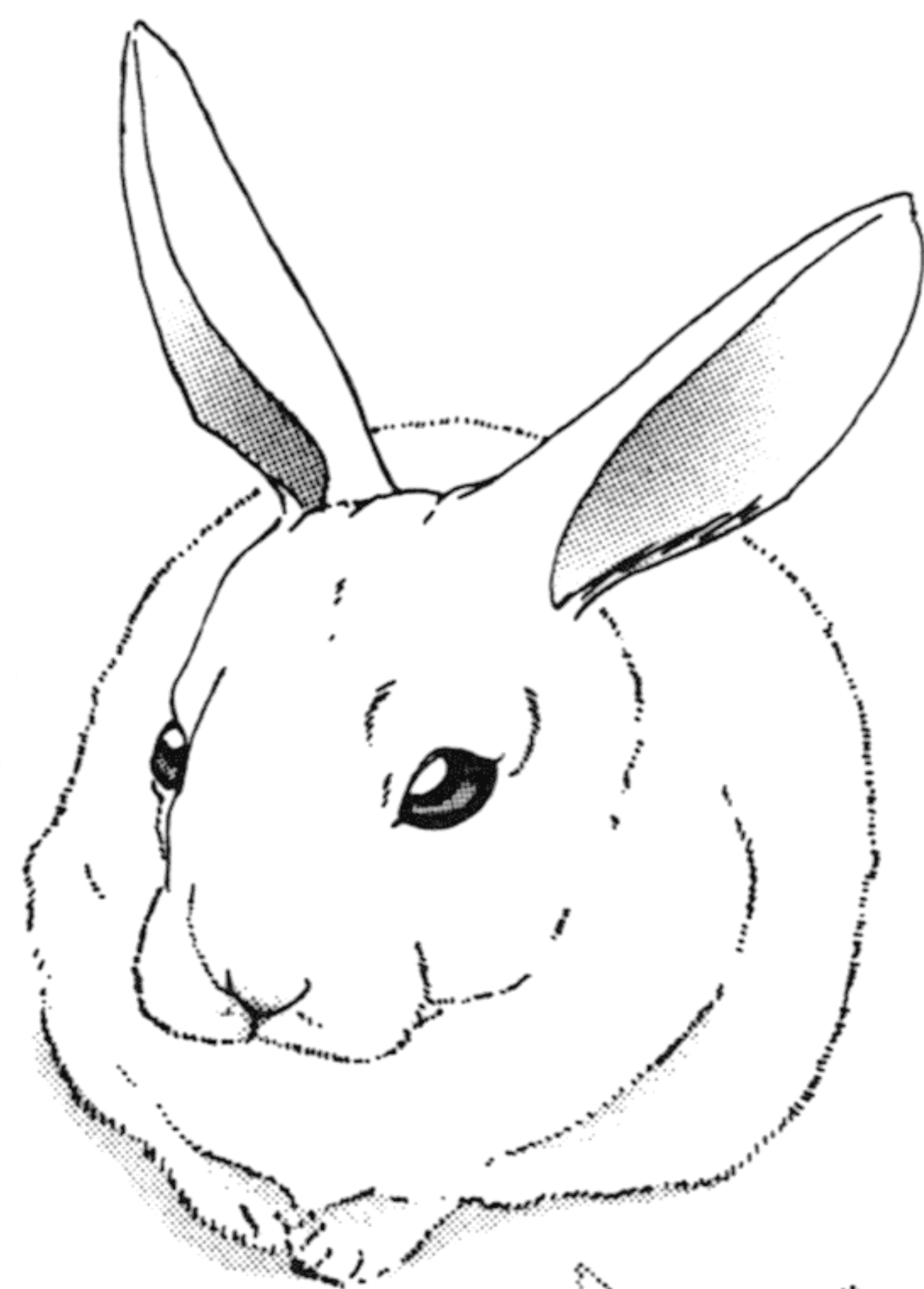
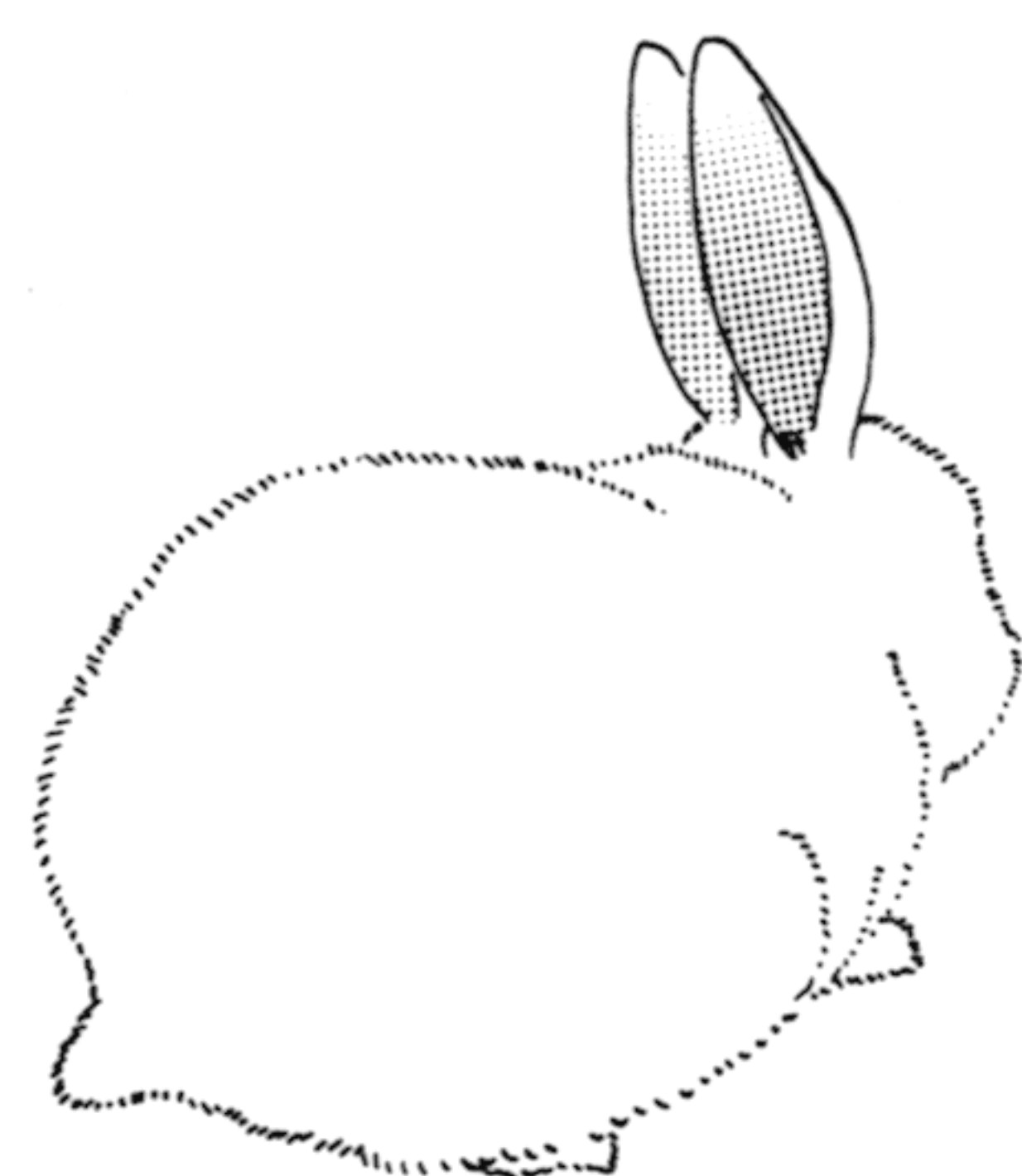
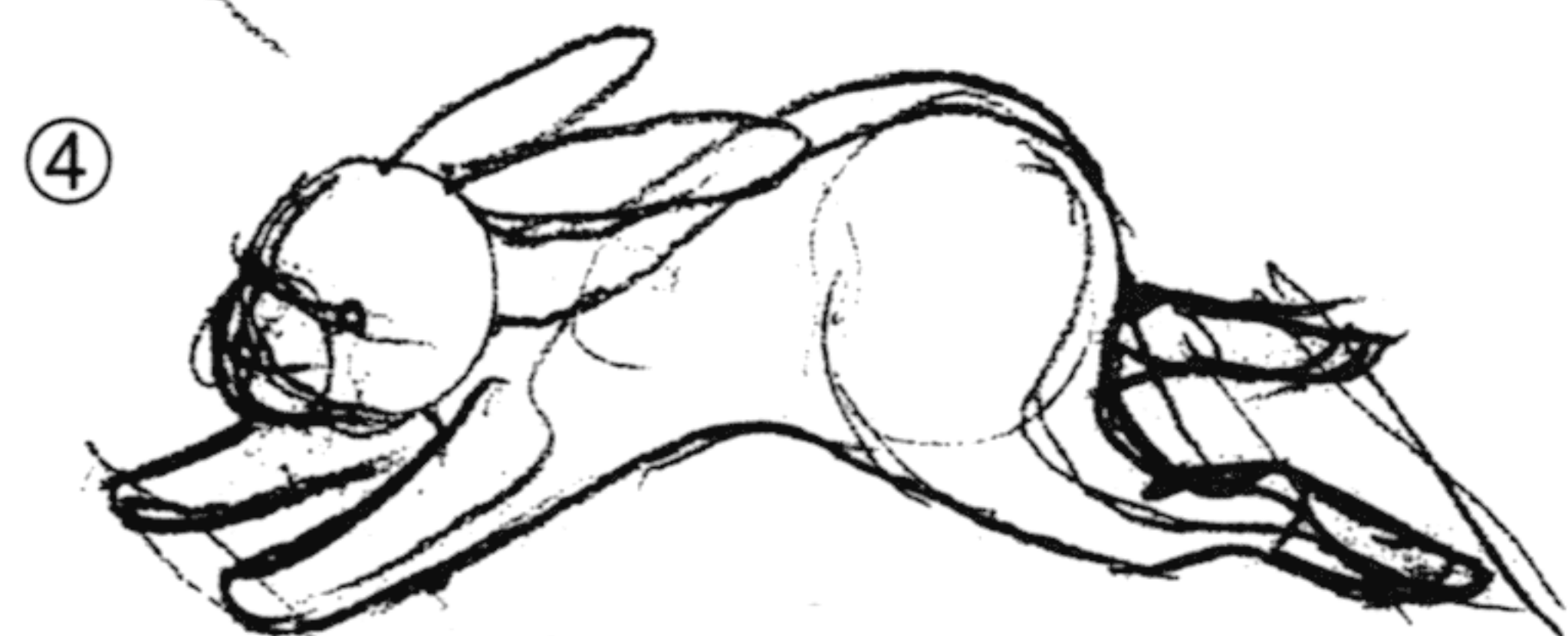
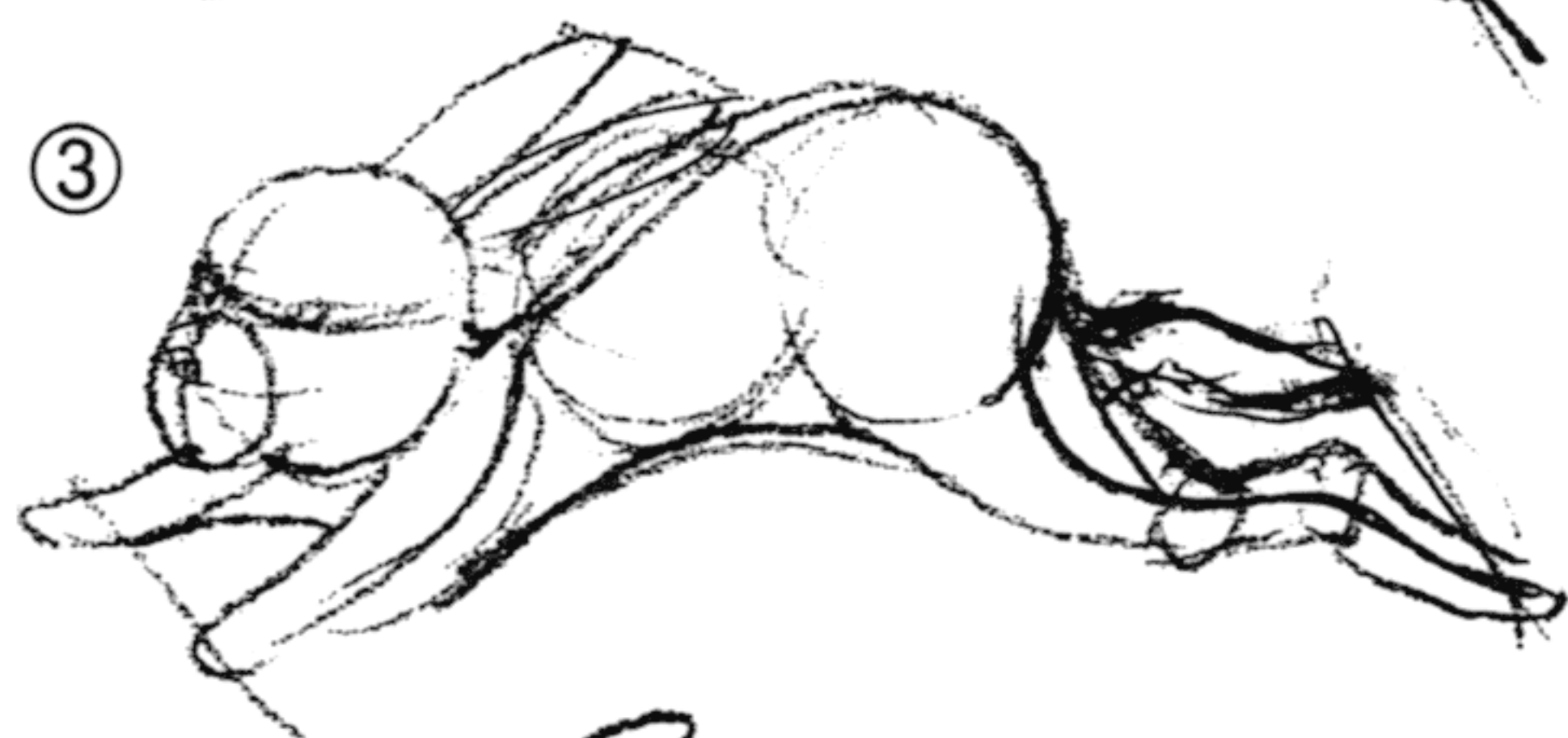
The five front toes are barely discernible.



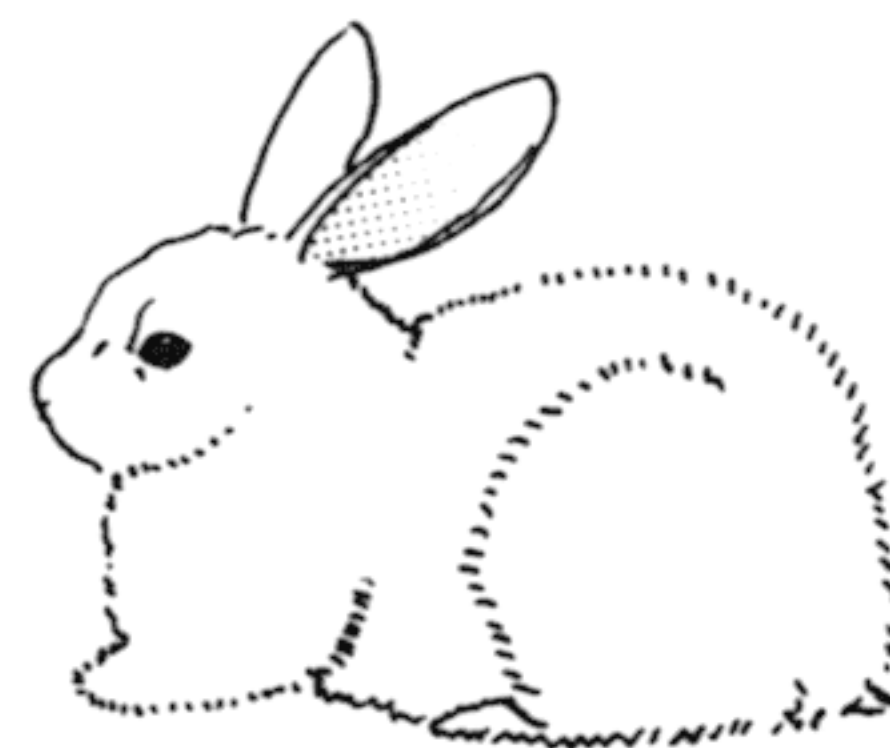
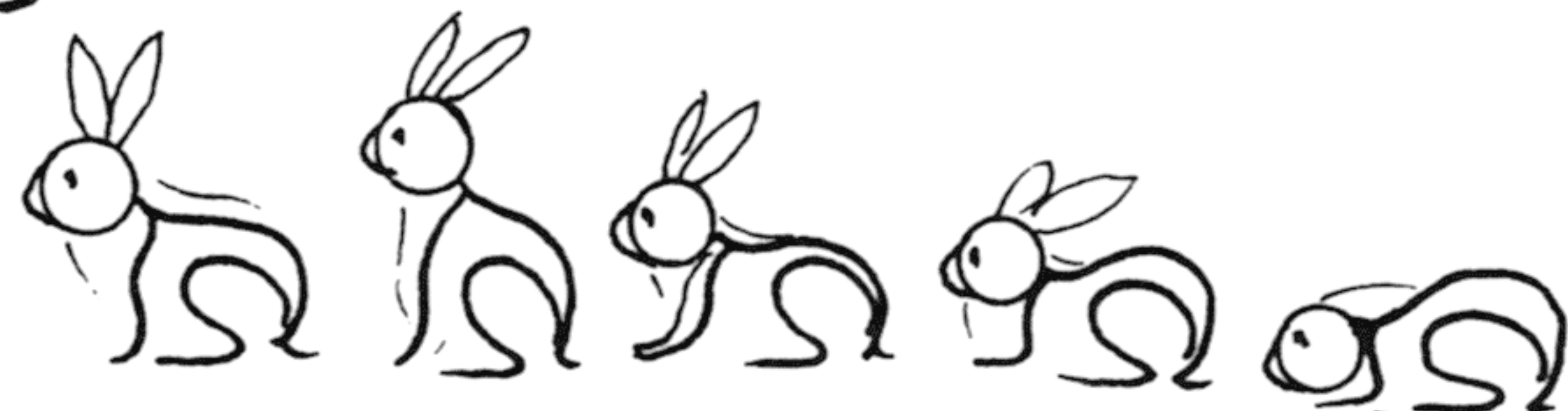
The rear paws have four toes each.







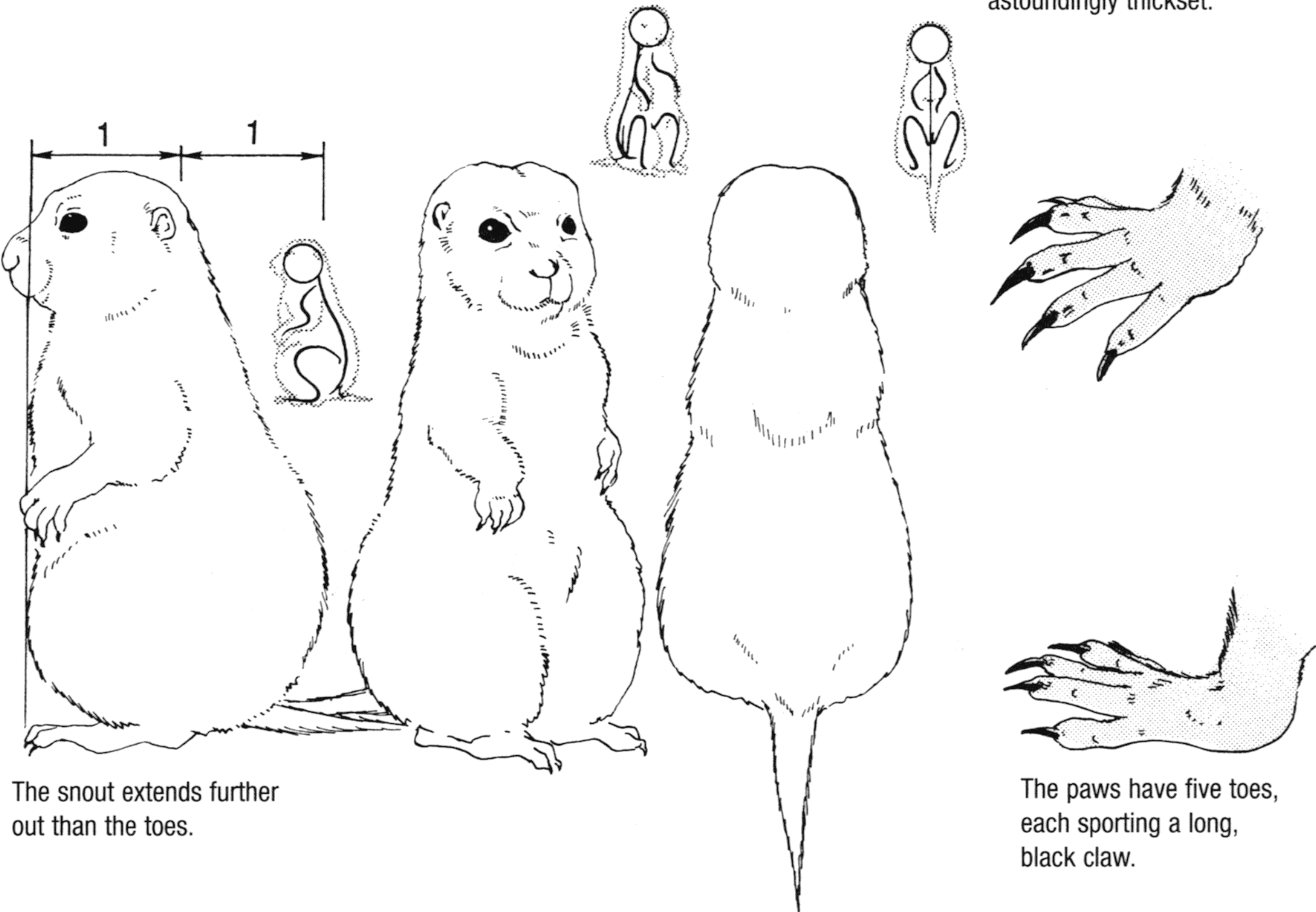
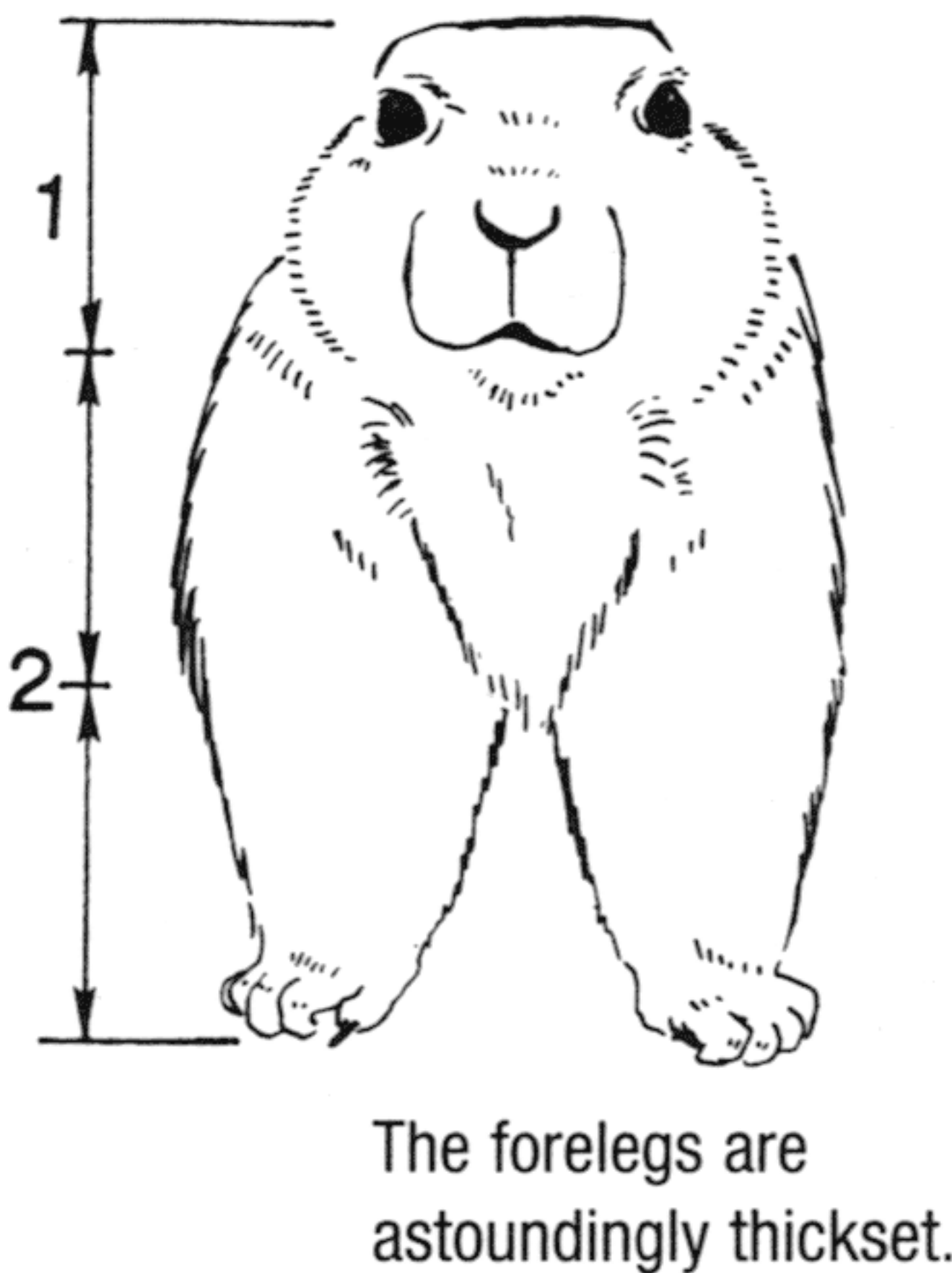
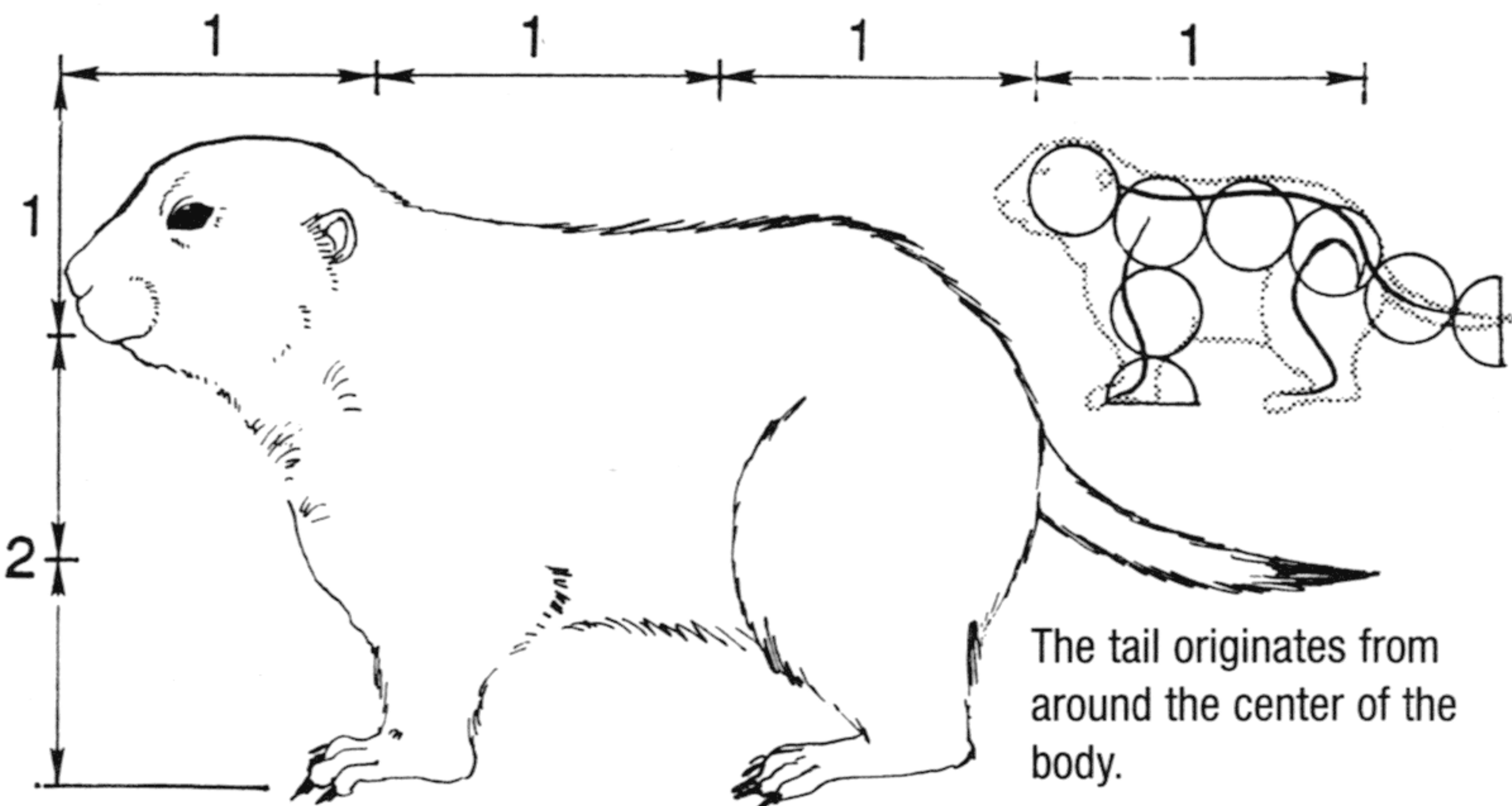
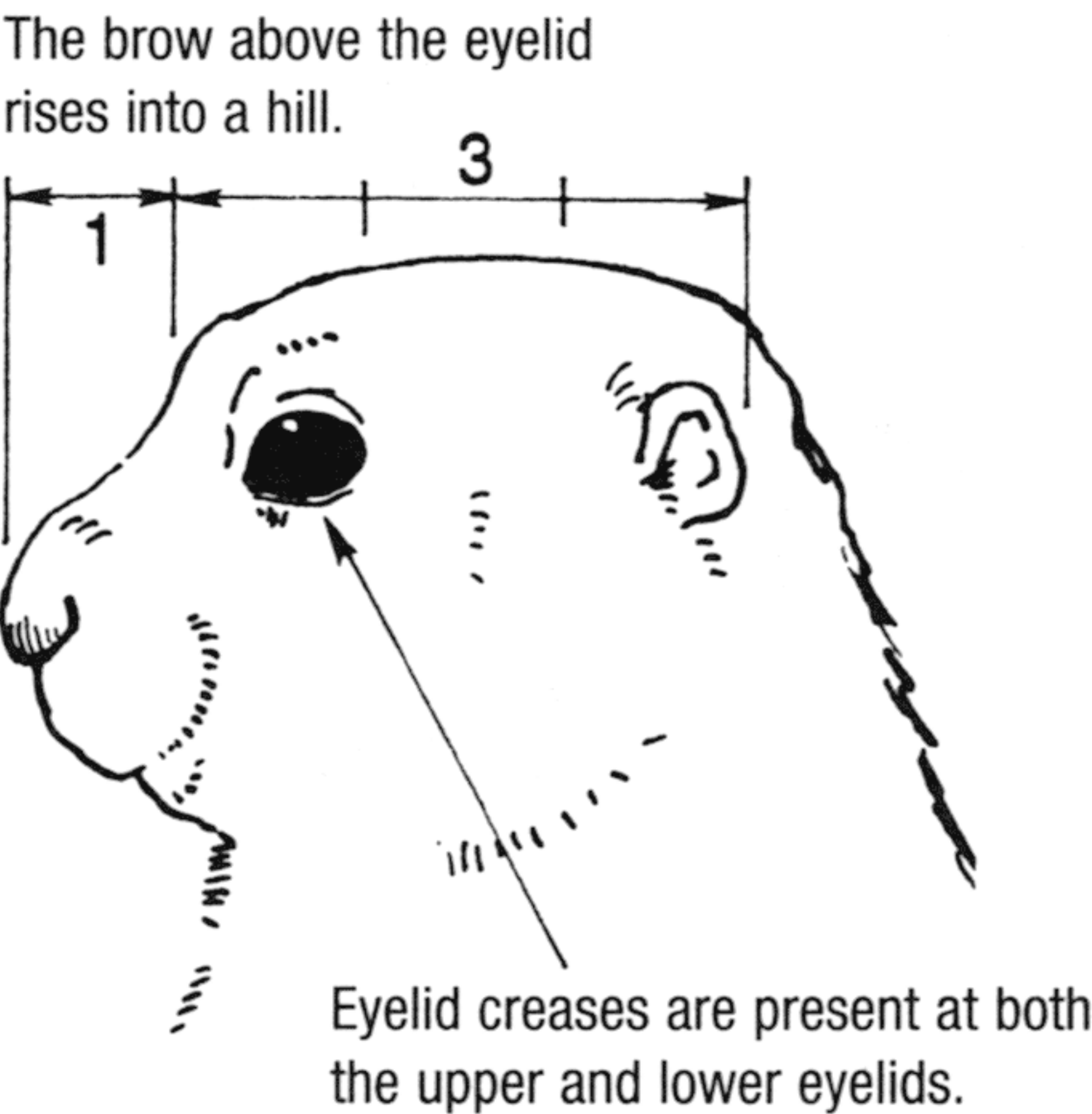
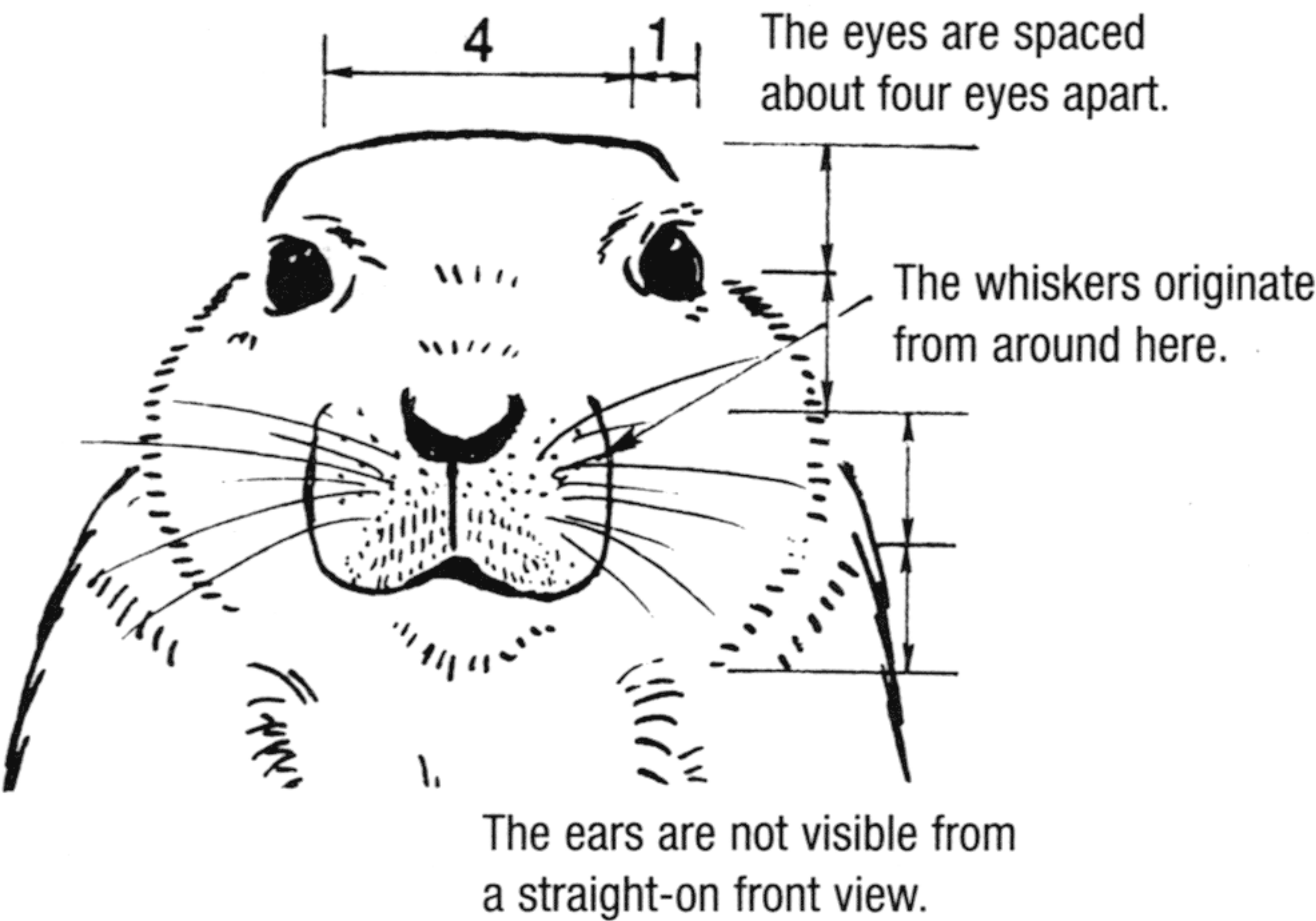
Sitting



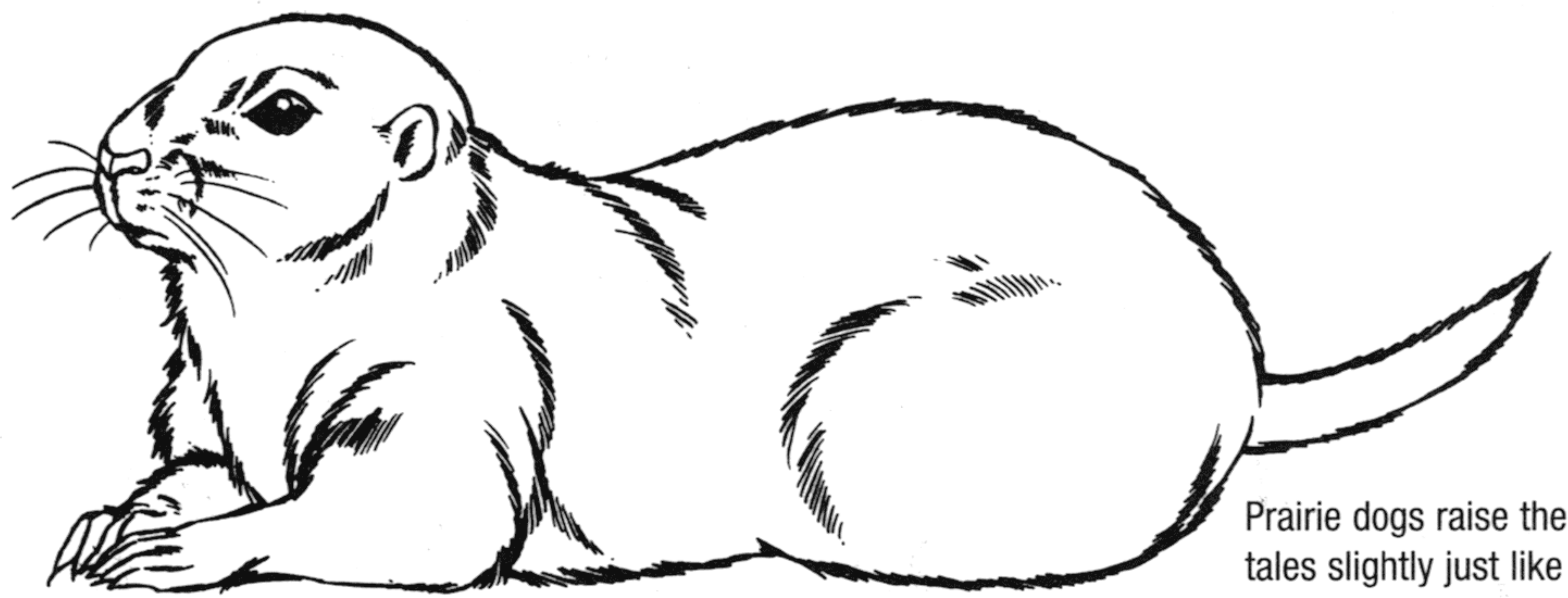


Prairie Dogs

The top of the head is a curve so subtle it is almost flat. The ears attach toward the rear of the head. Draw the head on the large side and the limbs thick, crafting an overall stocky, roly-poly figure.



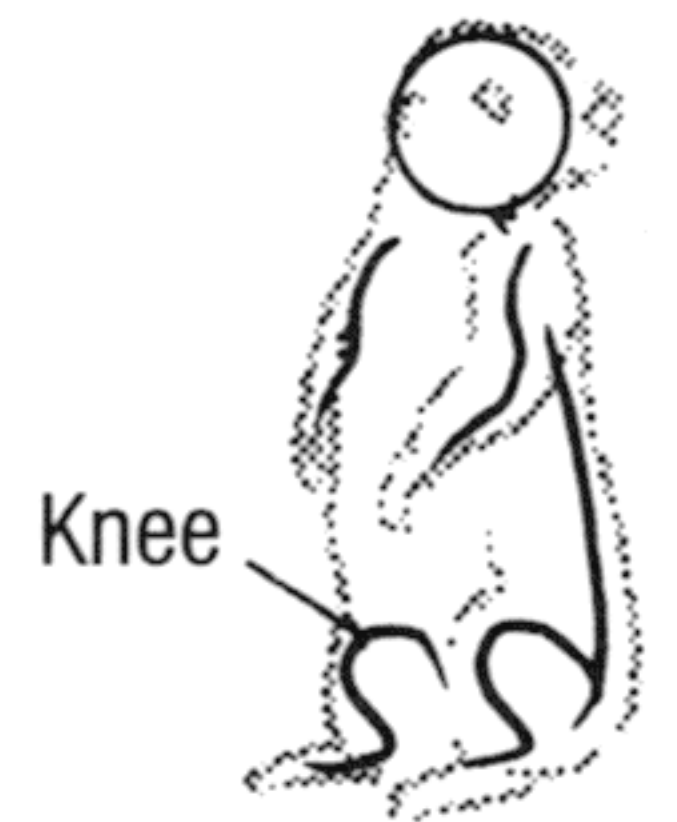




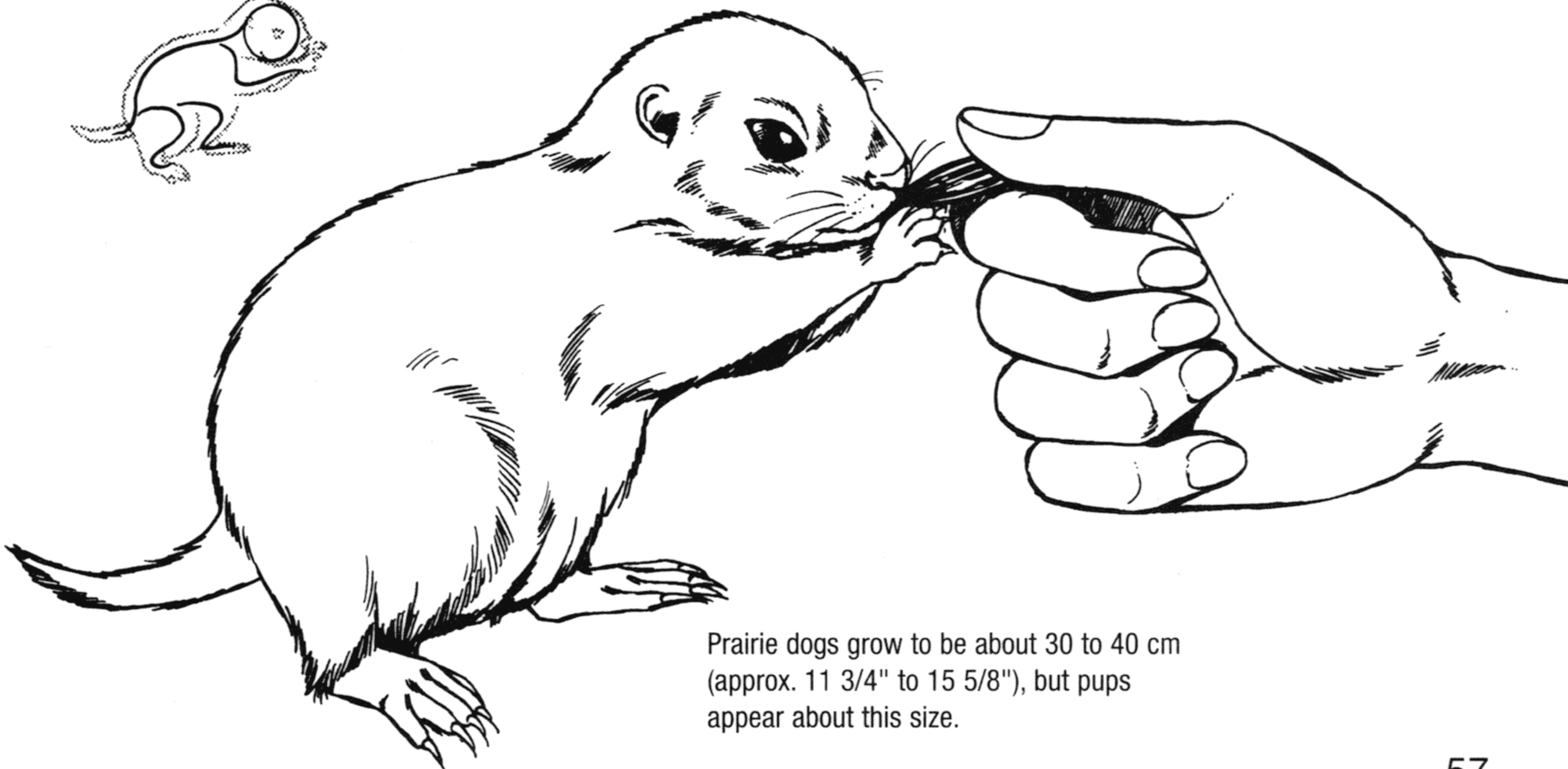
Prairie dogs raise their tails slightly just like a dog.



From this moderately high angle, the legs do not play a prominent role in the profile, presenting a straight-up-and-down figure.



The knees are not very prominent.

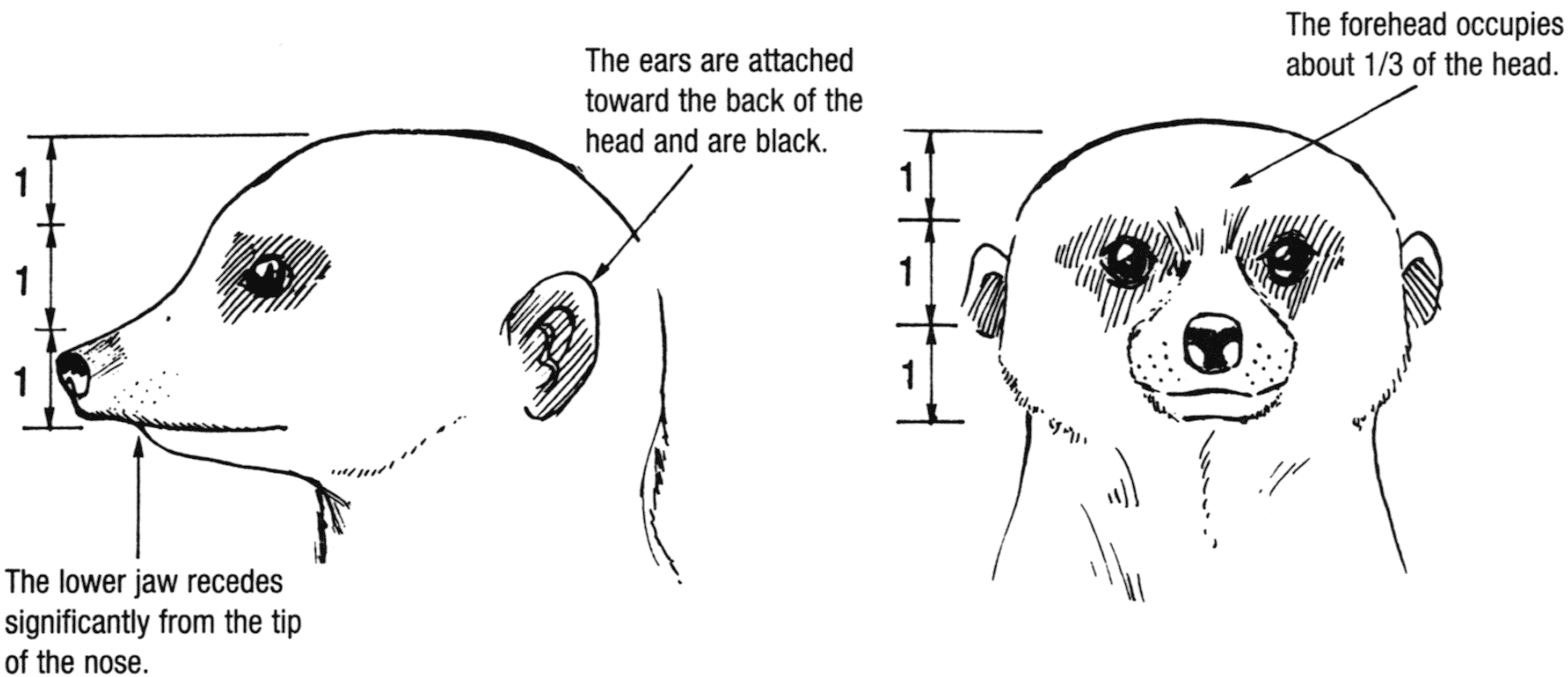


Prairie dogs grow to be about 30 to 40 cm (approx. 11 3/4" to 15 5/8"), but pups appear about this size.

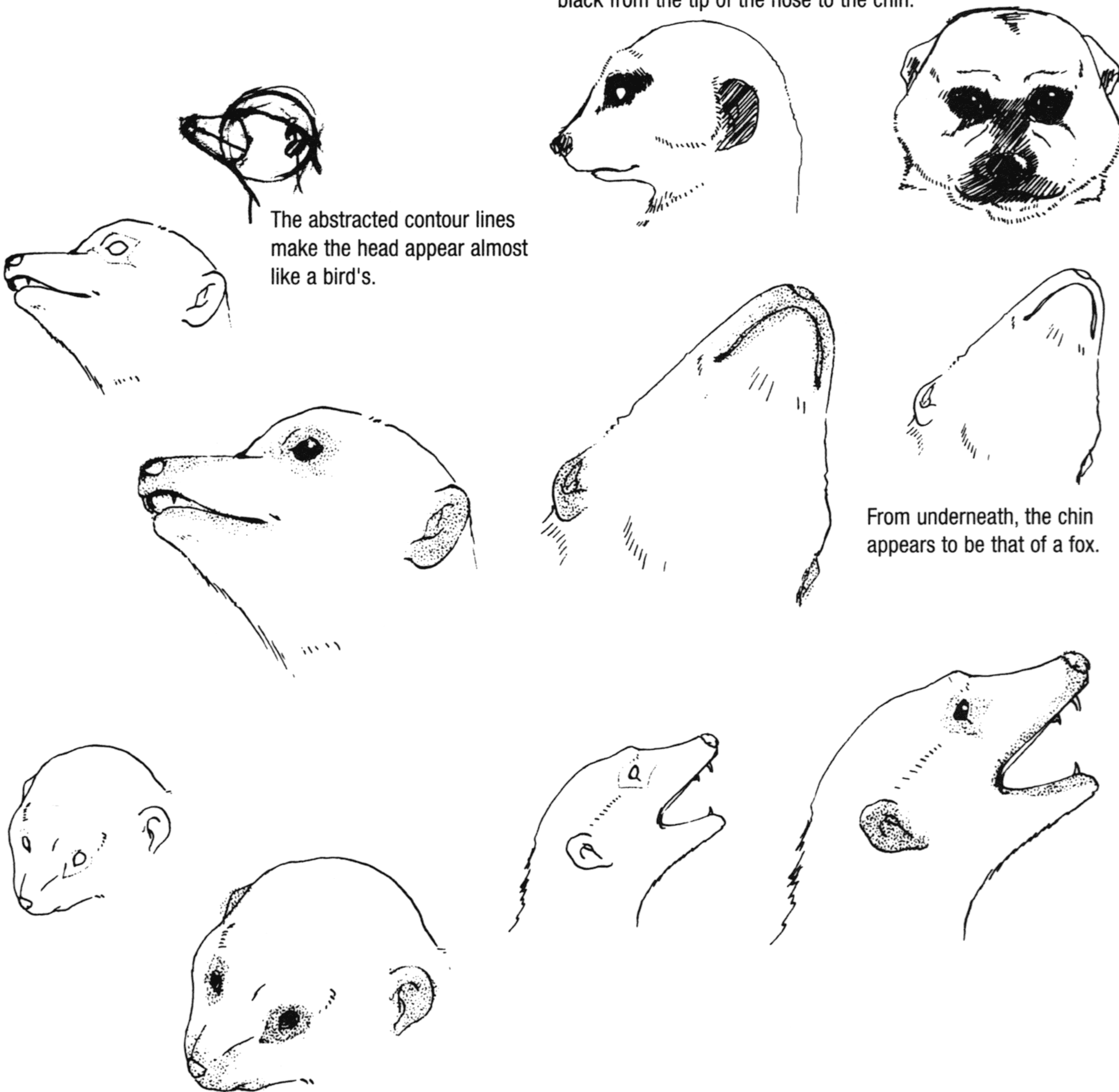


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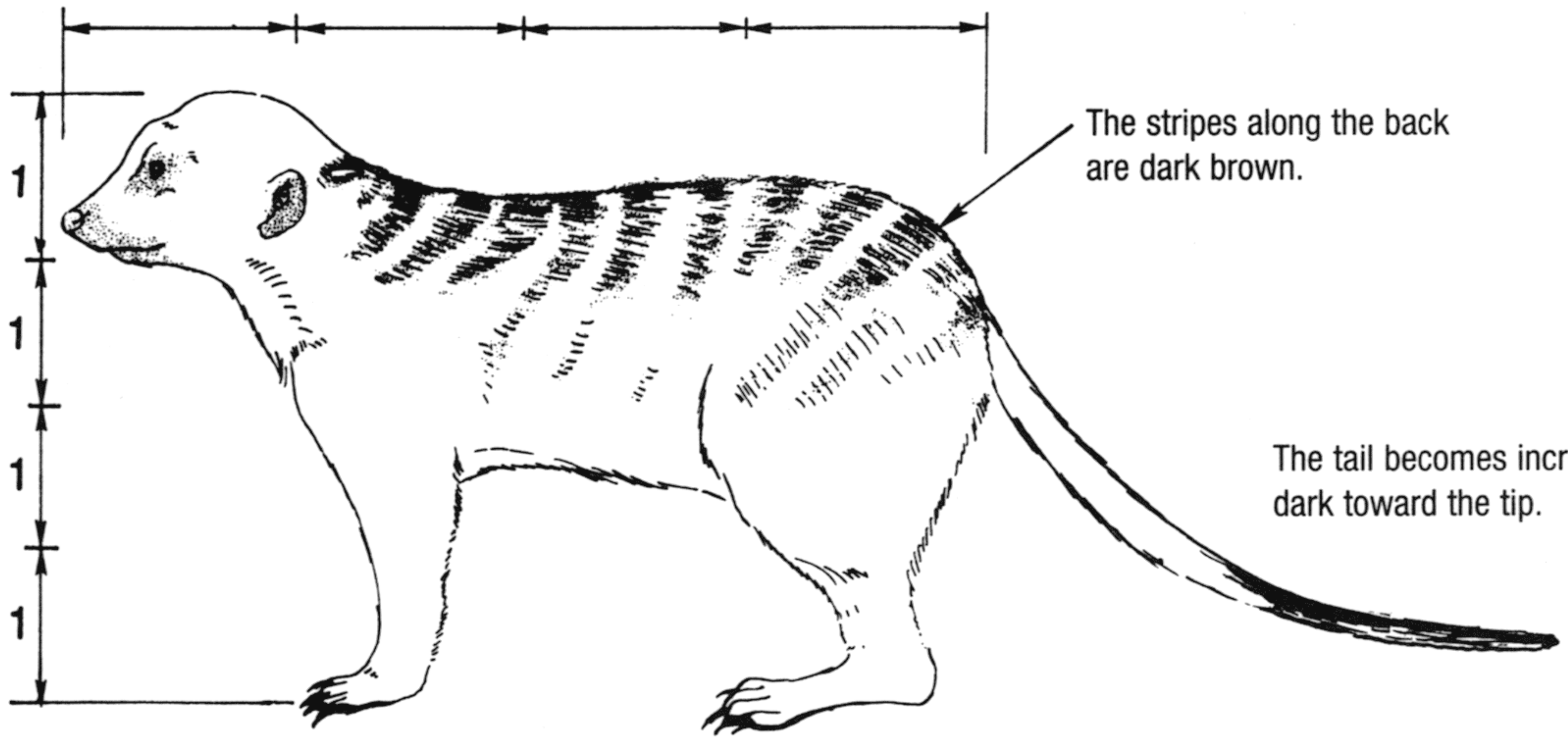
The distinguishing features for this animal are its flat head and pointed snout. The hair surrounding the ears and eyes is black, making the meerkat appear from far away to be wearing a black mask.



Large differences exist from individual to individual in the black surrounding the eyes, and some have faces that are black from the tip of the nose to the chin.





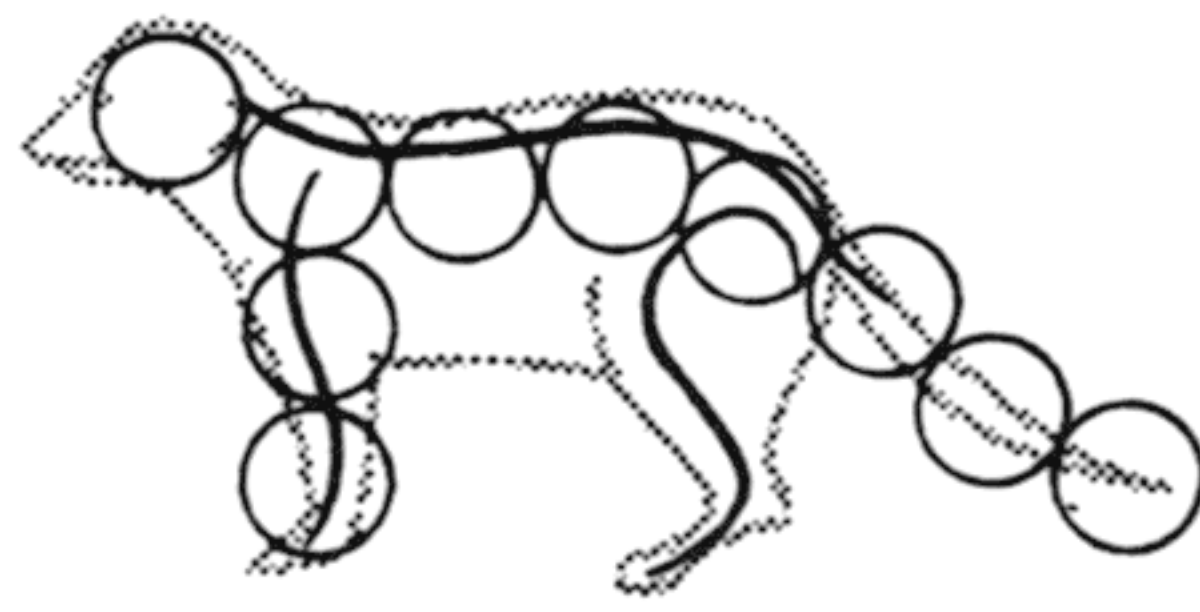


The stripes along the back are dark brown.

The tail becomes increasingly dark toward the tip.



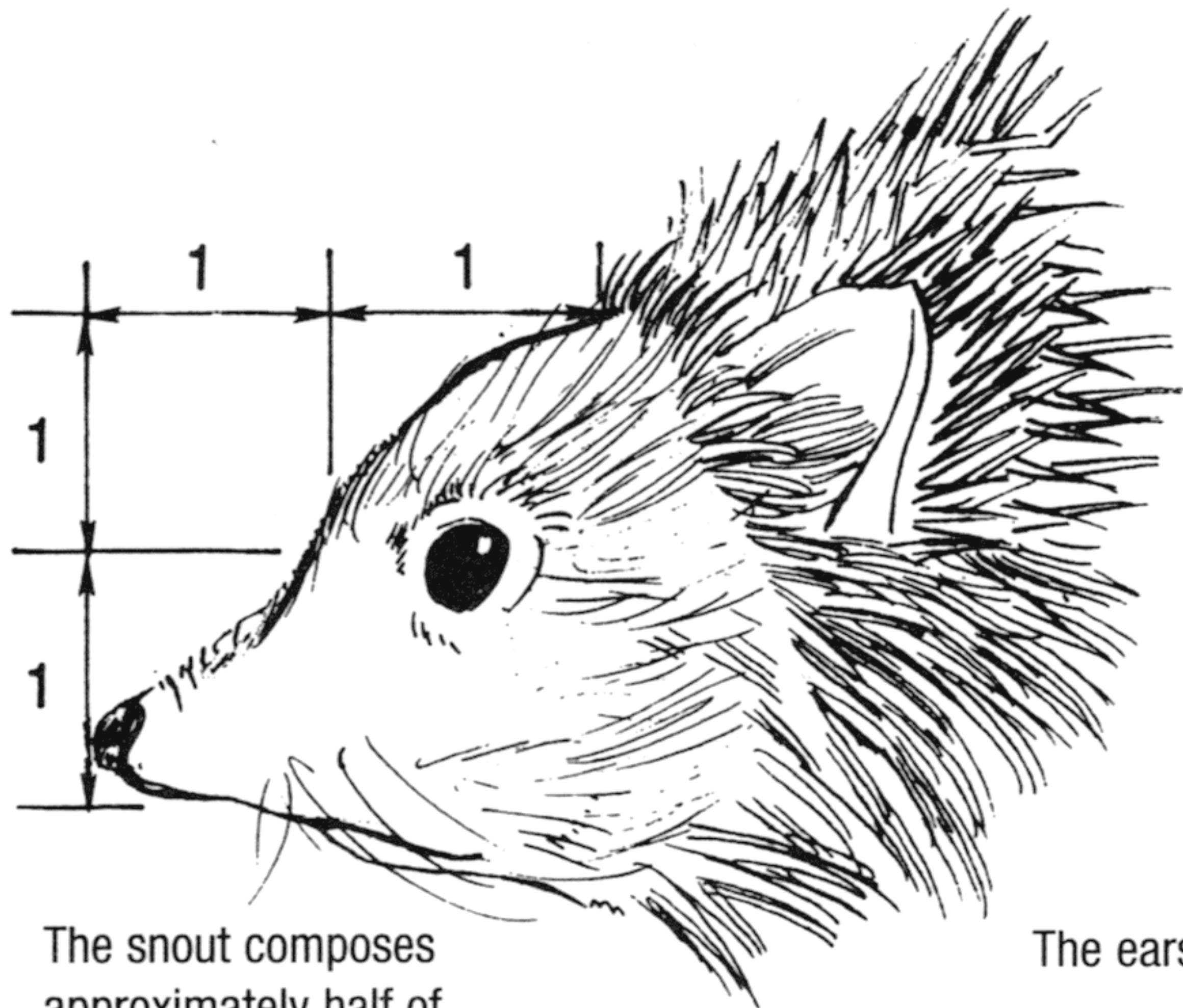
The claws are long and black.





Hedgehogs

Draw the hedgehog as if depicting a pointy-nosed rat wearing a carapace of needles on its back.



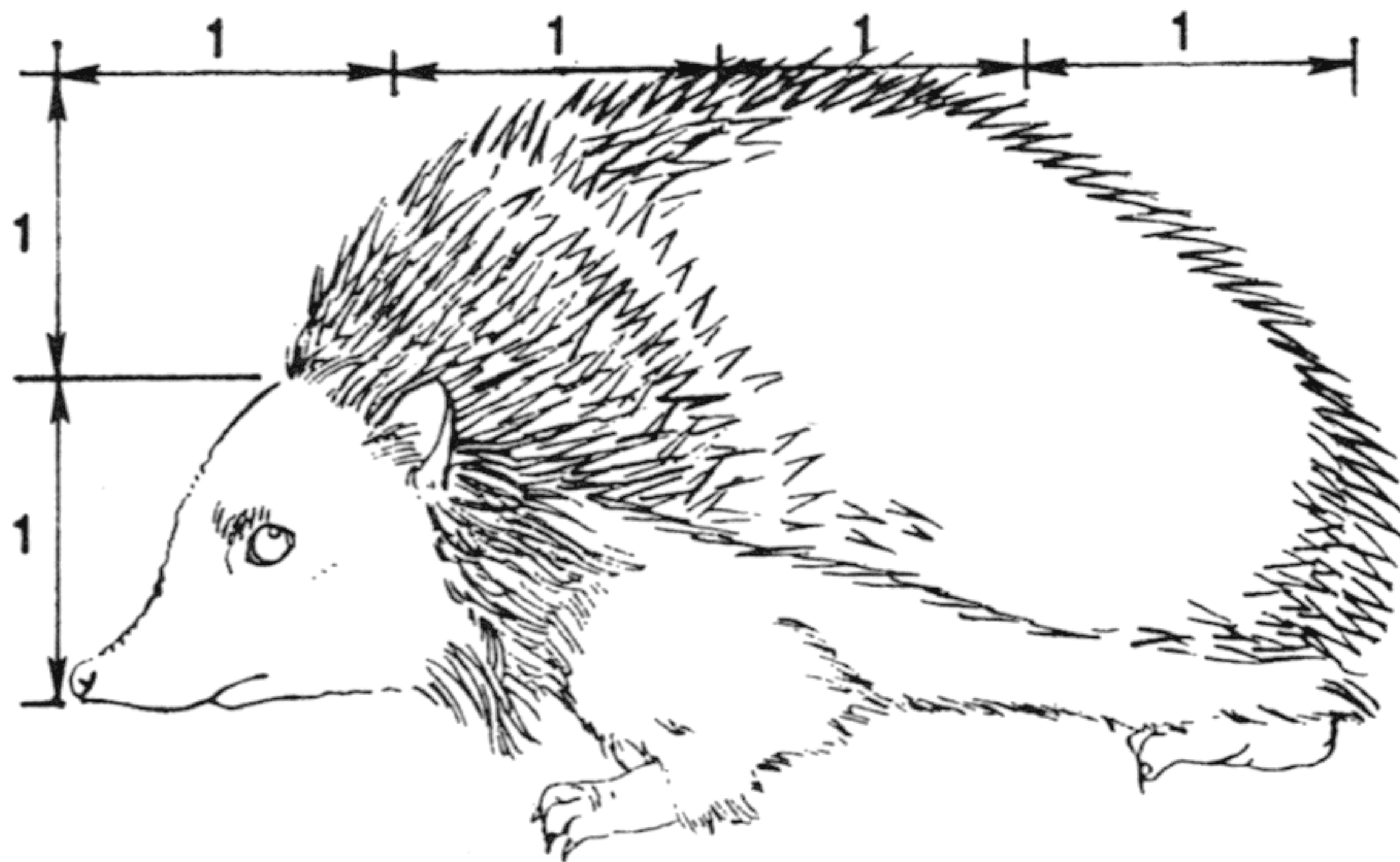
The snout composes approximately half of the face.

The ears' interiors are black.



Thick fur strands (needles)

These fine strands originate just above the eye and grow straight back.



The mouth forms a "W"

Omit the part of the forelegs where they meet the body to create the look that they are emerging from the needle coat.



Nose tip



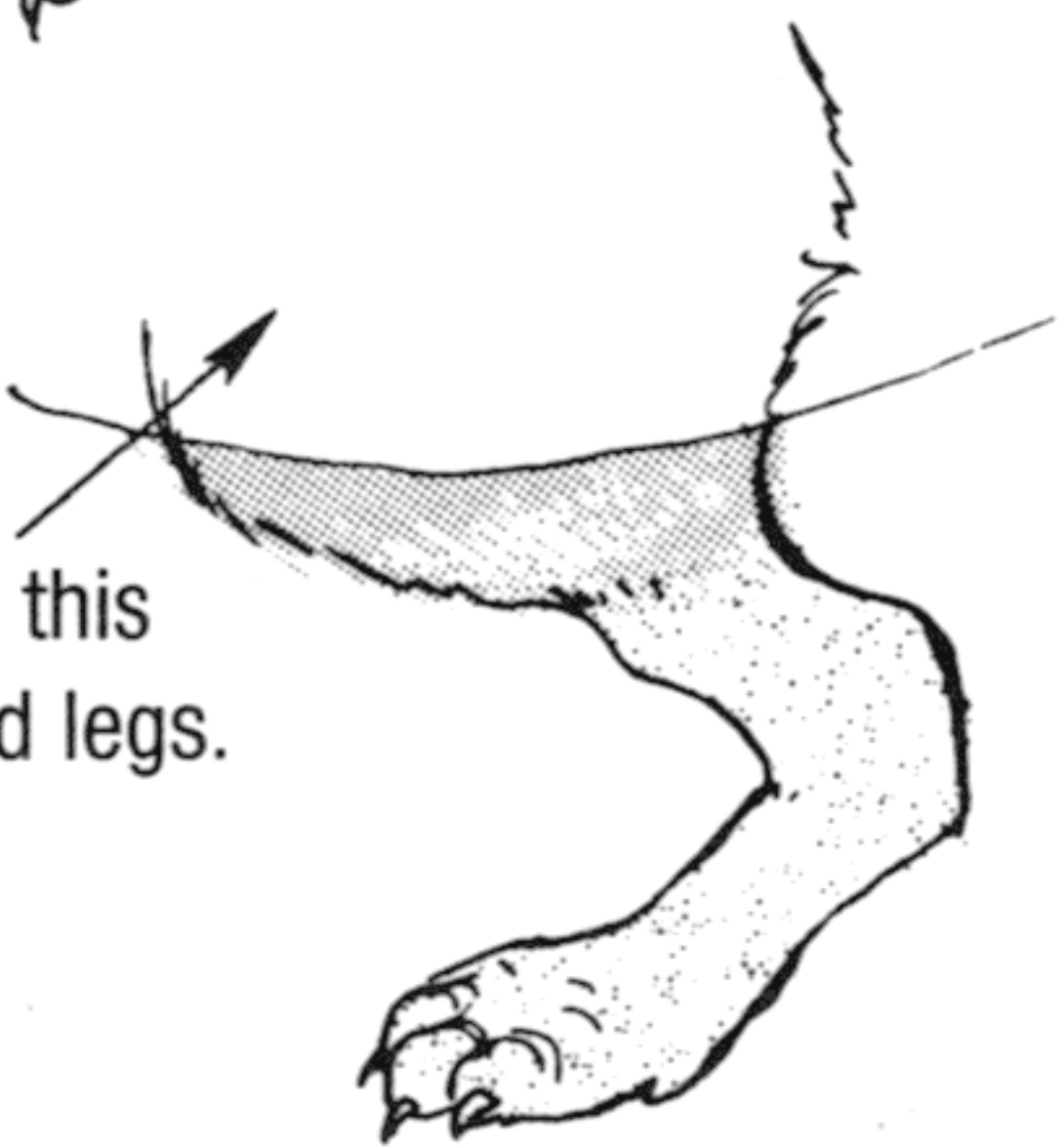
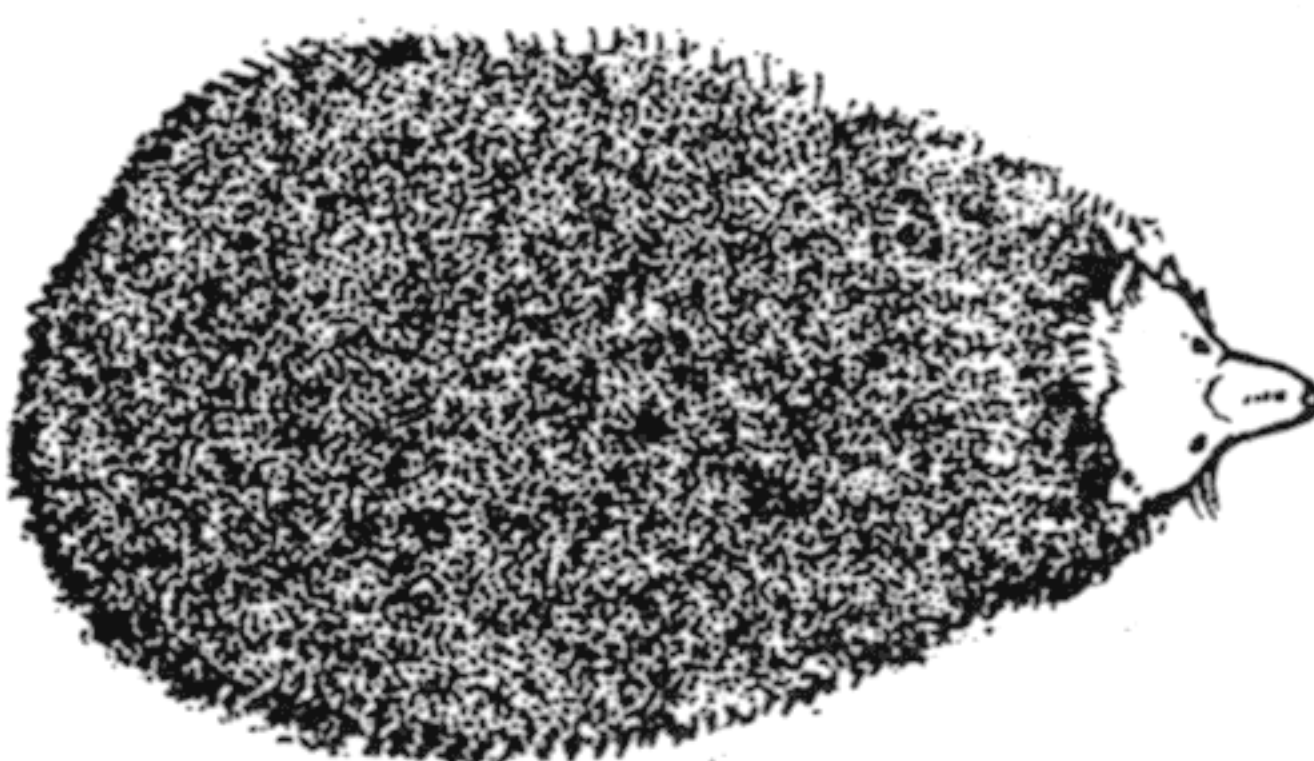
The needles are striped.



The needles radiate from two spots on the head.



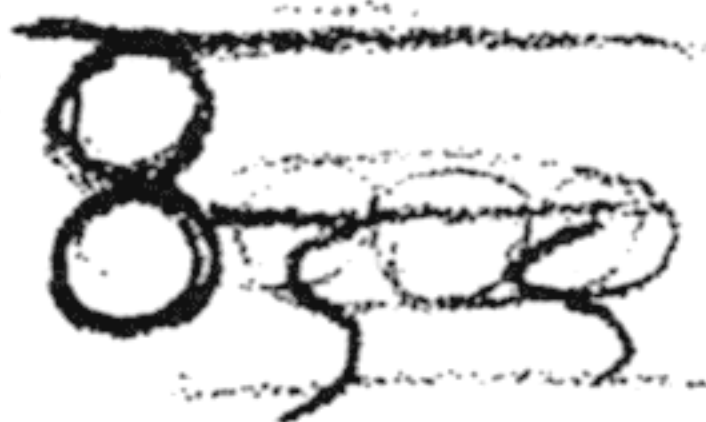
Needles obscure this region of the hind legs.







Determine the head's size to establish the entire body's length.



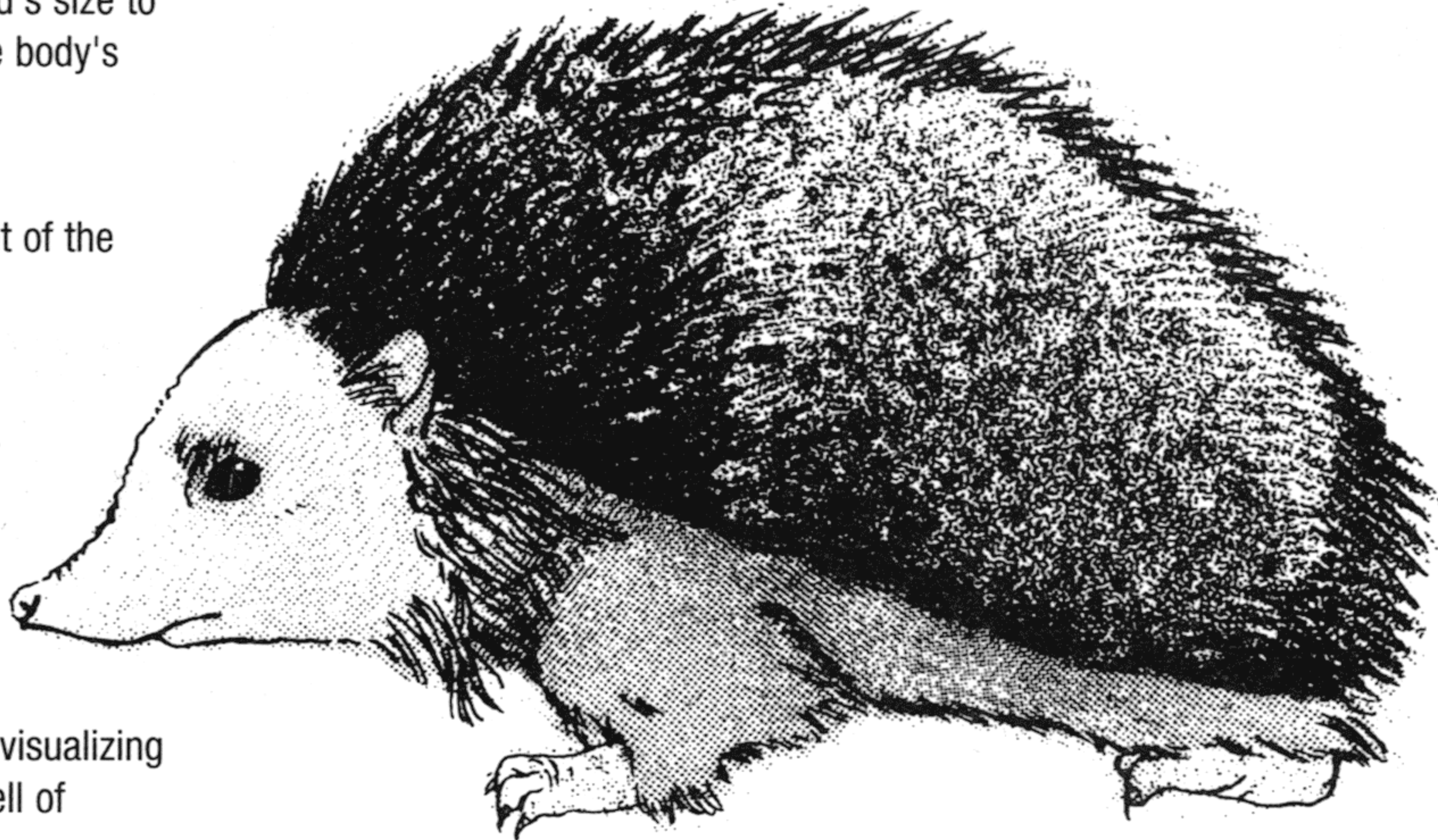
Establish the height of the needle coat.



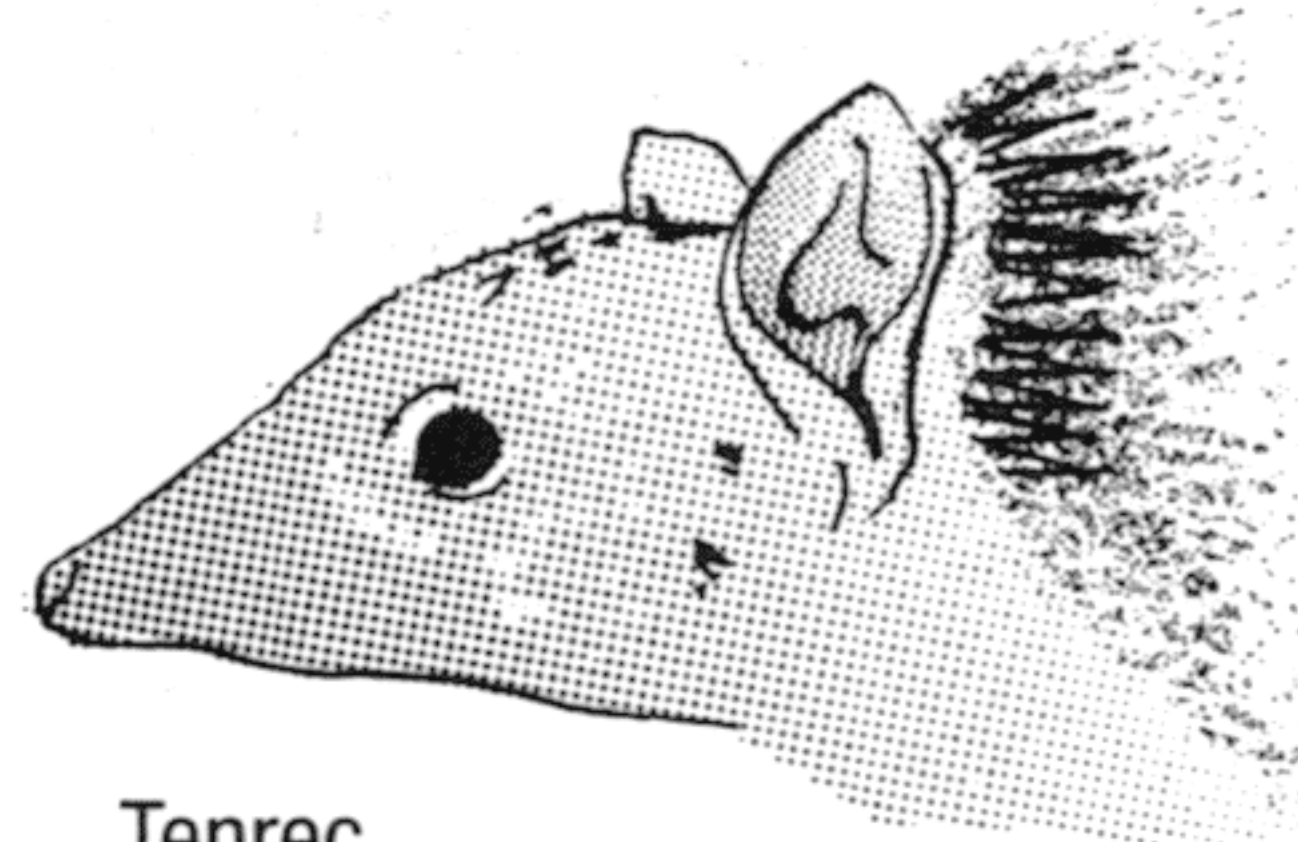
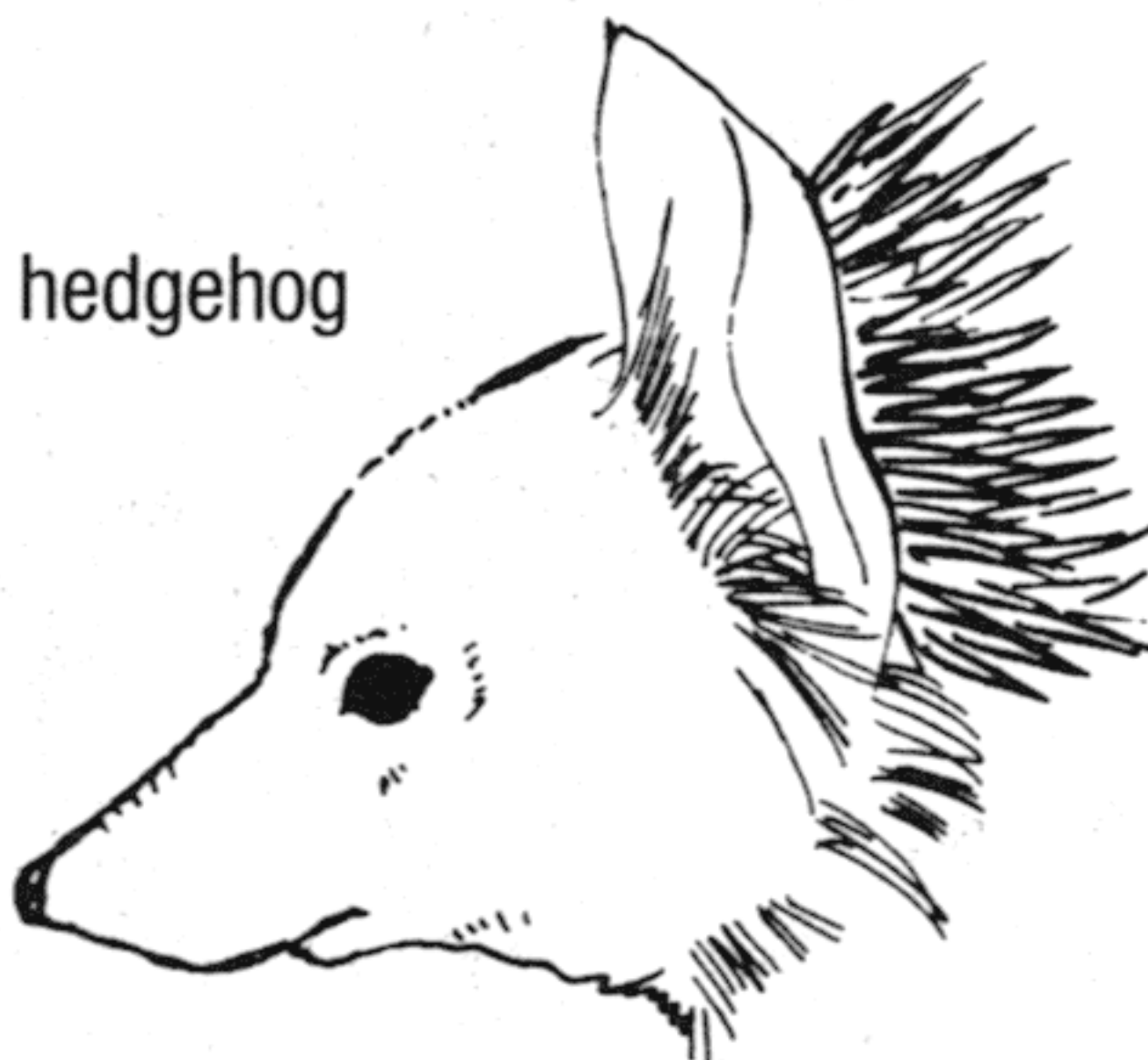
Sketch the exterior contours.



When drawing, try visualizing a rat wearing a shell of needles.



Greater hedgehog



Tenrec



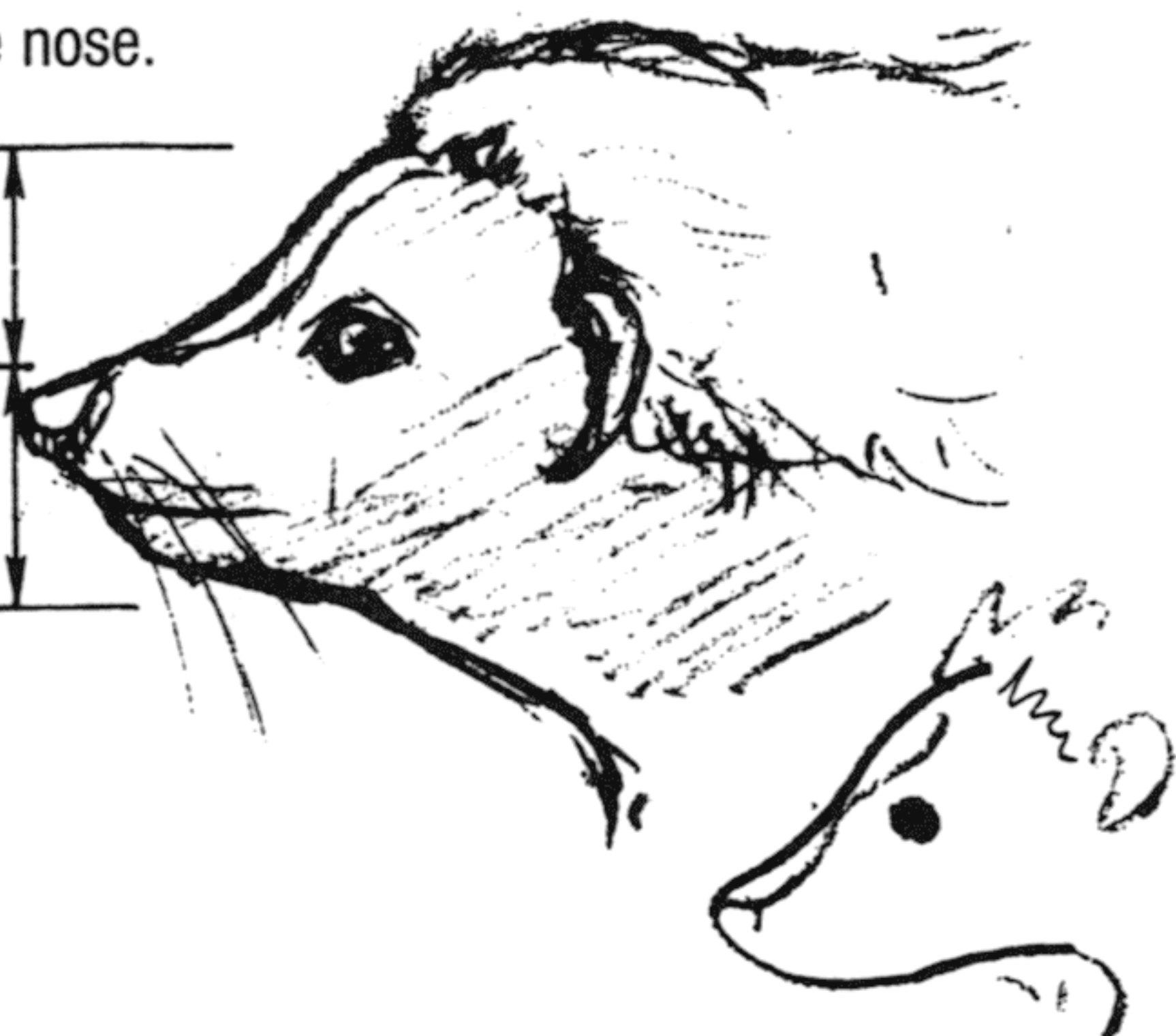
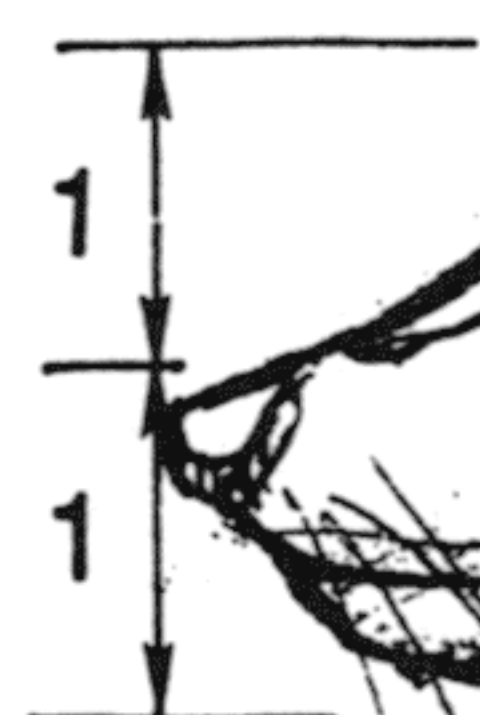
The ears fold when the hedgehog curls into a ball.



# Skunk

Draw the profile with the snout turning up. From the front, the head with its full cheeks should form a pentagonal shape. The fur covering the trunk gives it a stout appearance.

Use a gentle S-curve from the forehead to the tip of the nose.



A thin rhomboid shape appears in the forehead's center.



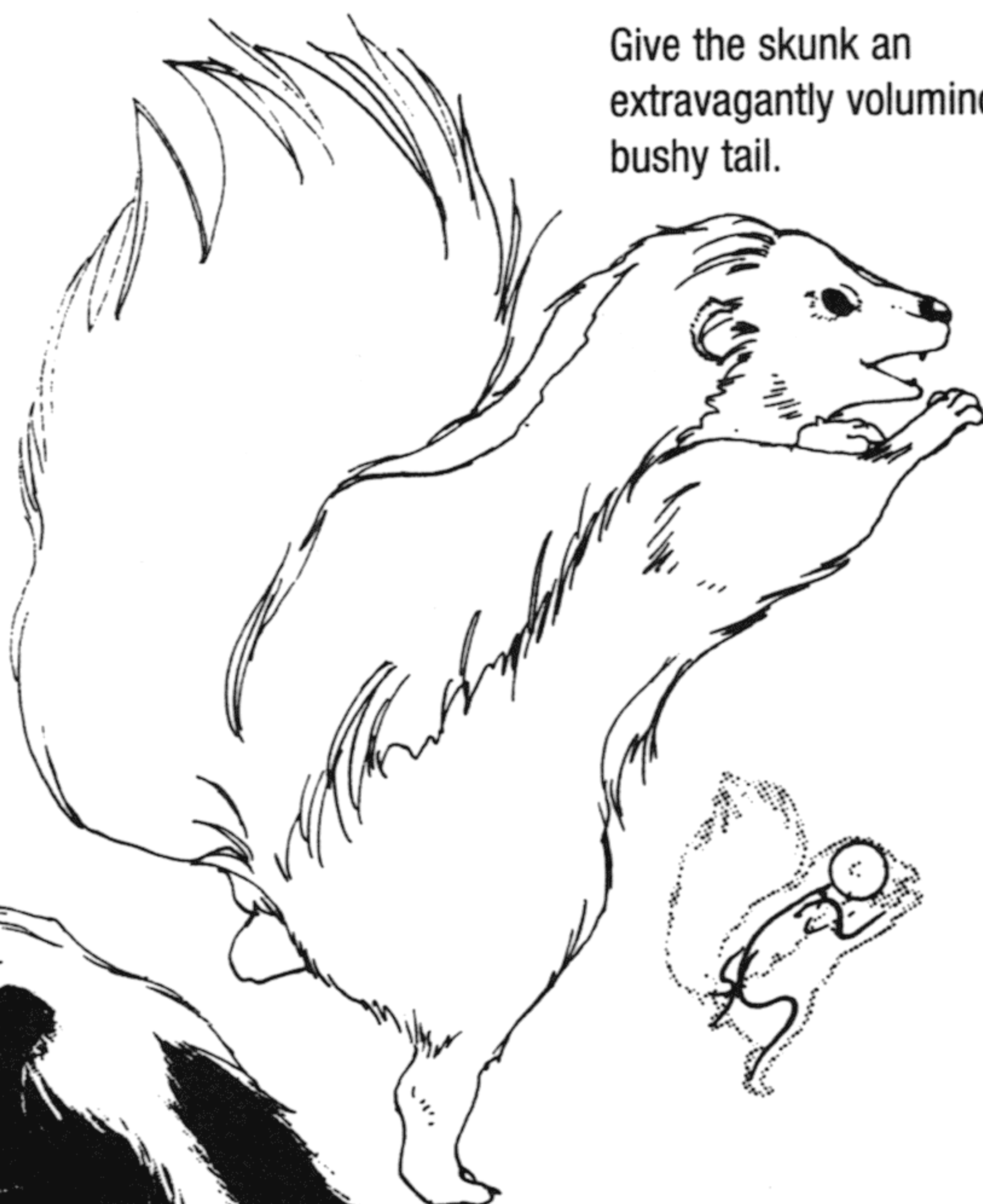
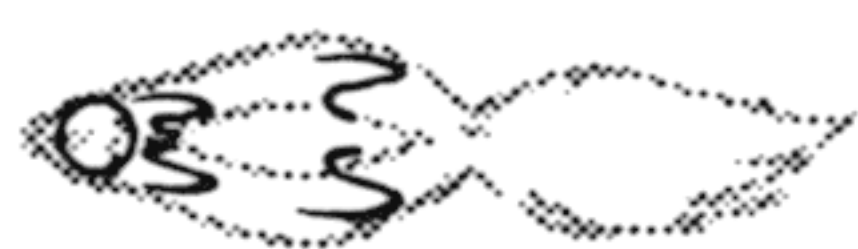
From the side, the whole trunk appears to be covered in white fur. The limbs and face are black.



Give the skunk an extravagantly voluminous, bushy tail.



The center of the back sports a long rhomboid shape.

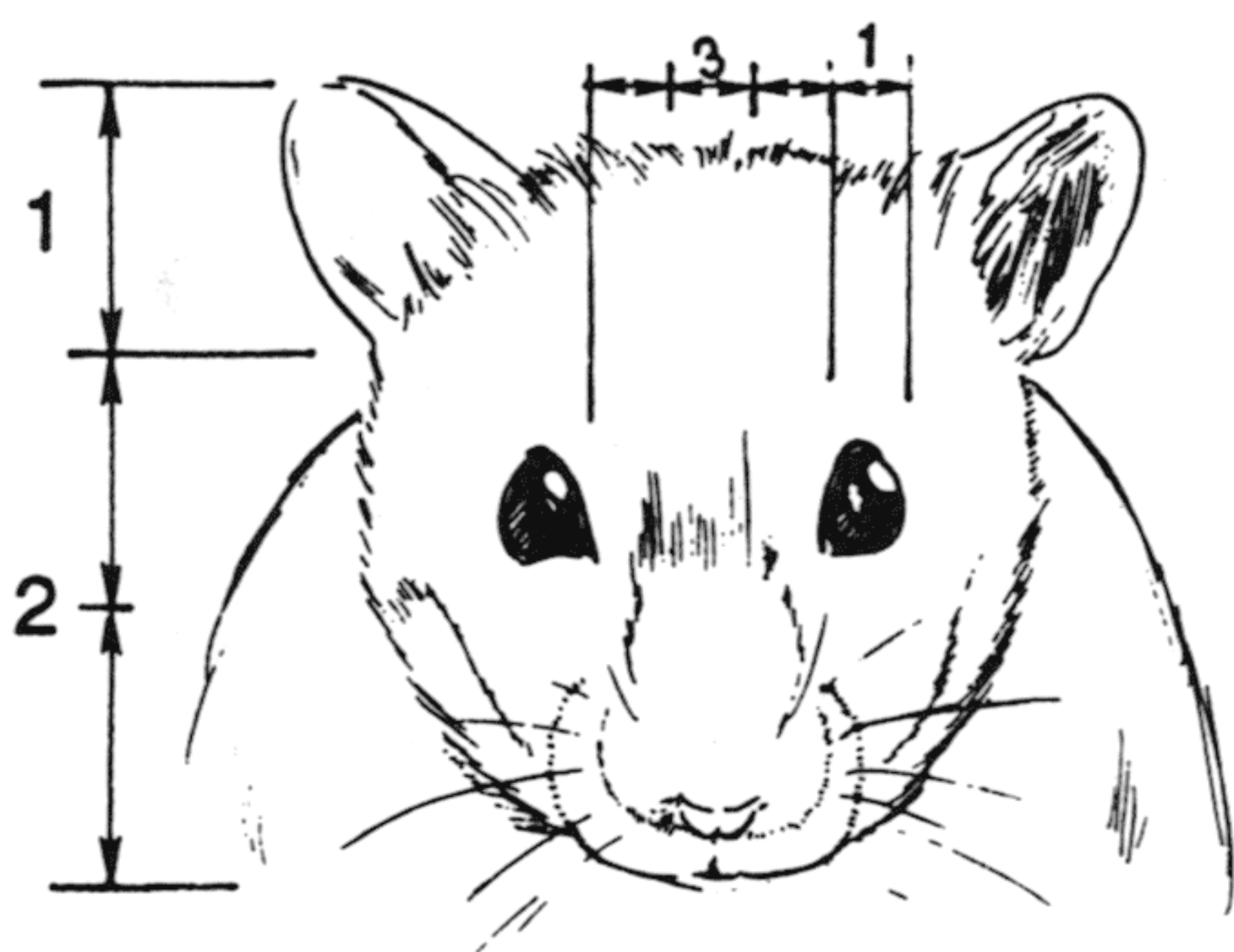




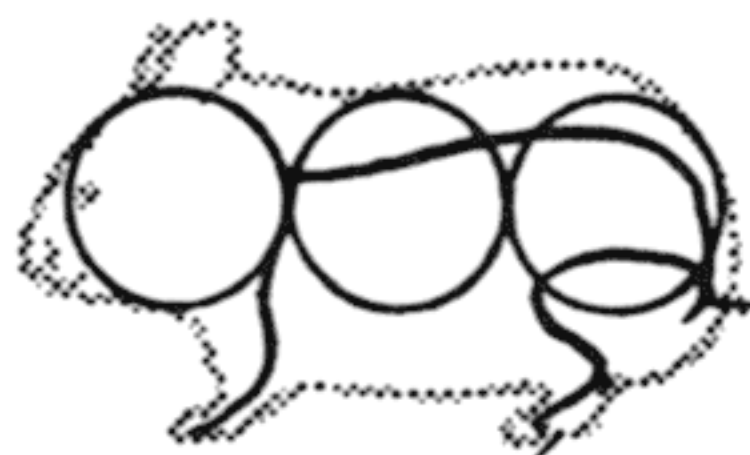
Hamsters

The hamster is a rodent whose sticky-out ears are approximately 1/3 the head's size. Its legs are stubby, and its abdomen lies close to the ground. Be sure to give both the head as well as the body a sense of roundness.

The eyes are spaced three eye-widths apart.

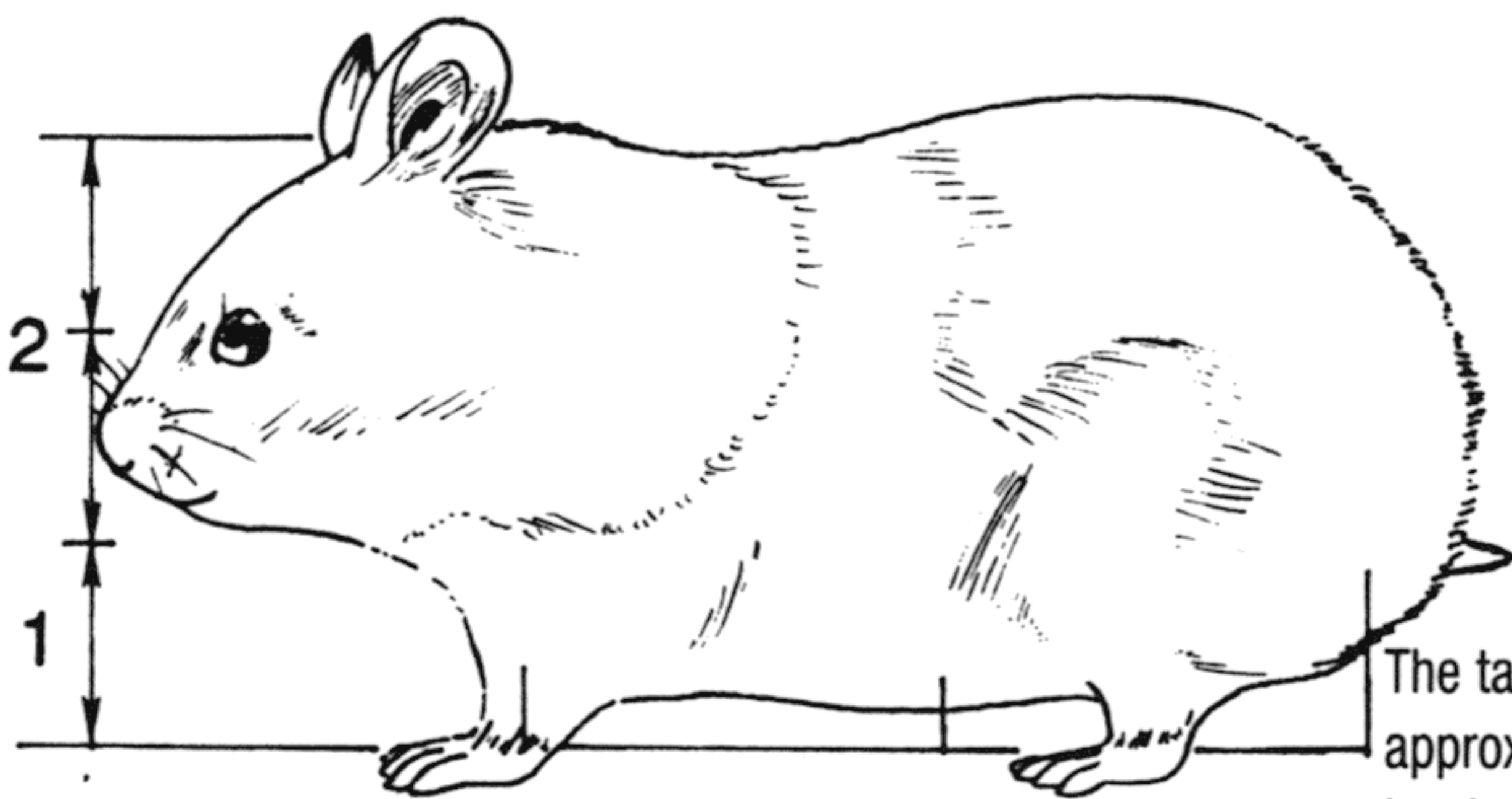


The ears are about 1/3 the size of the head.

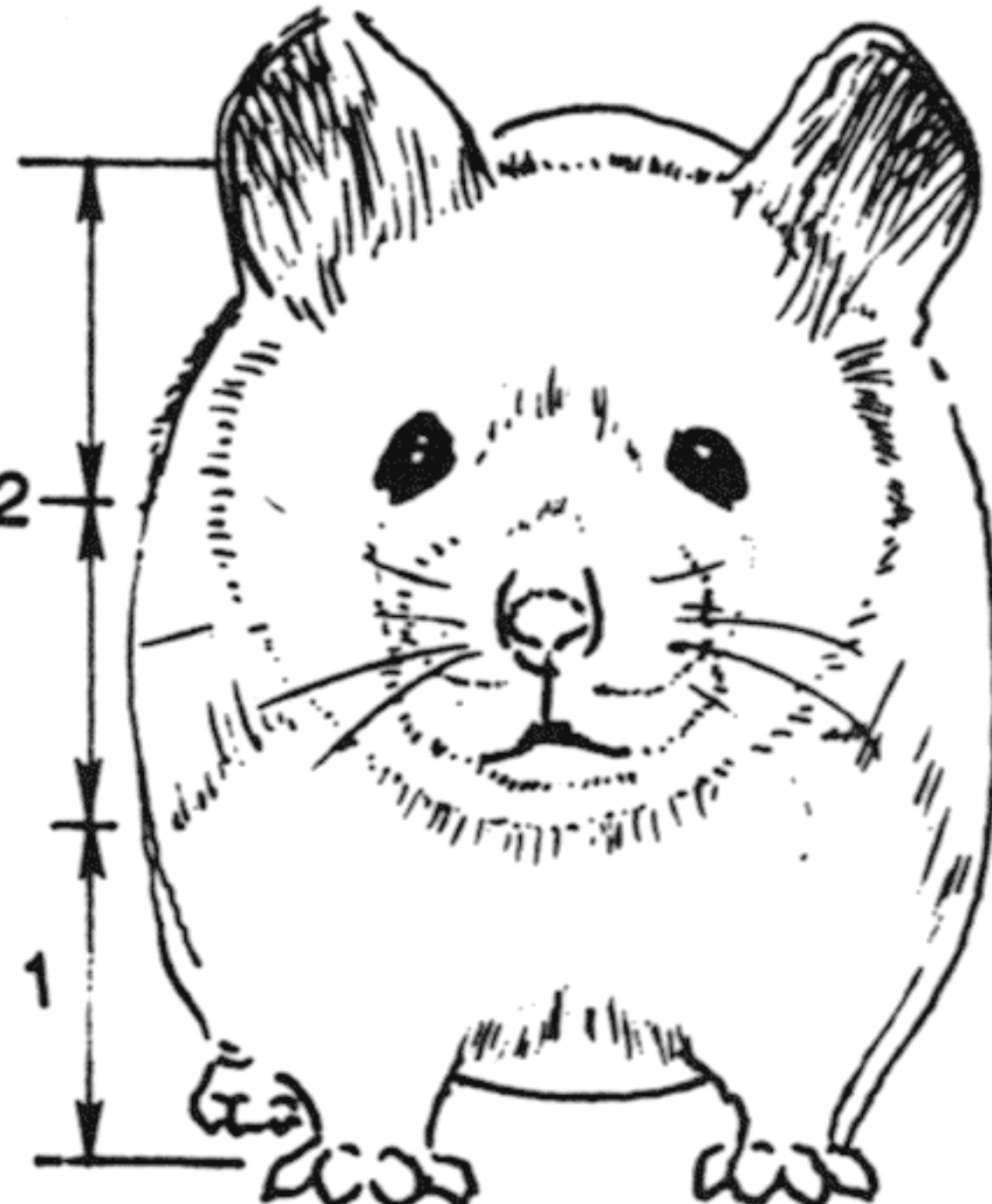


The eyes bulge and are lidded.

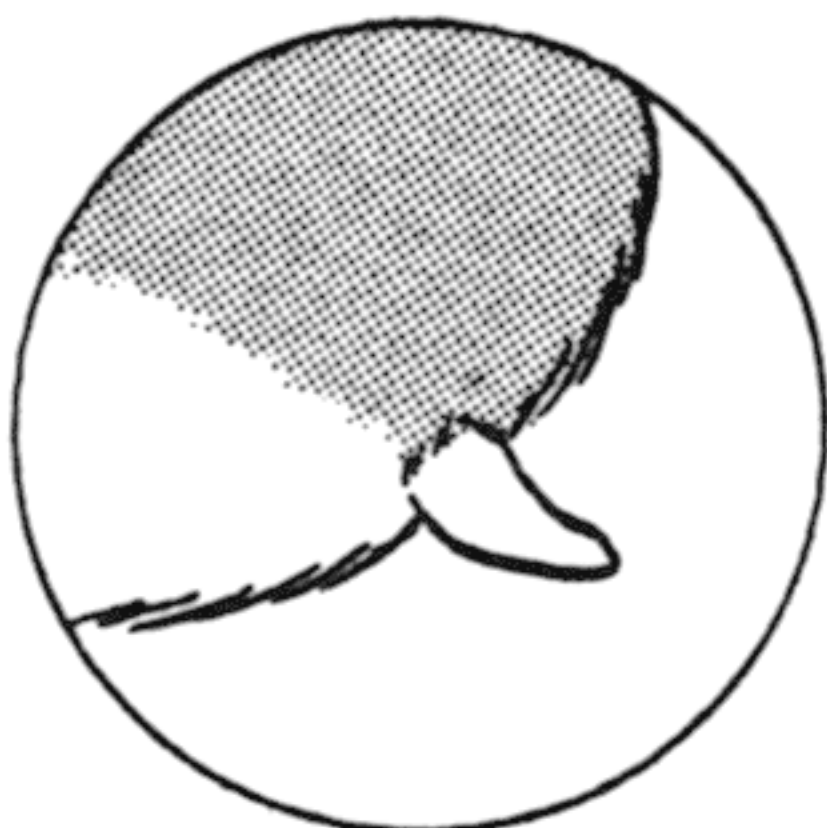
Ear



The tail attaches approximately on level with the throat.



From a front view, the head comprises 2/3 of the figure.



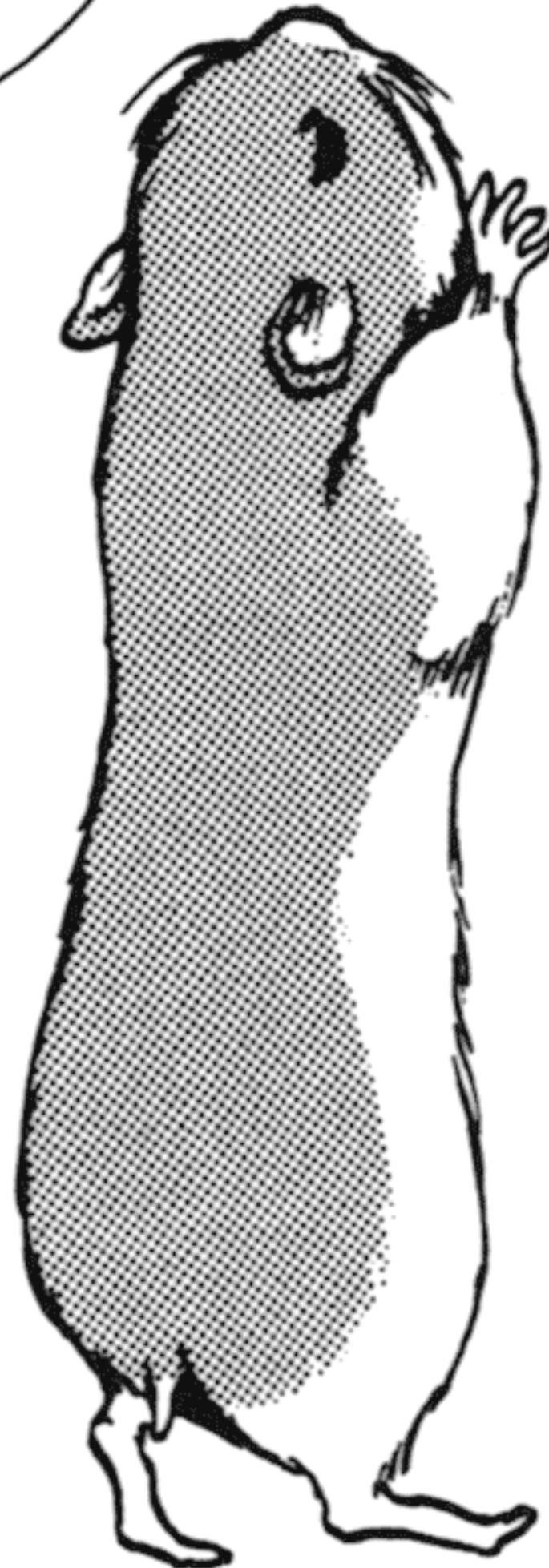
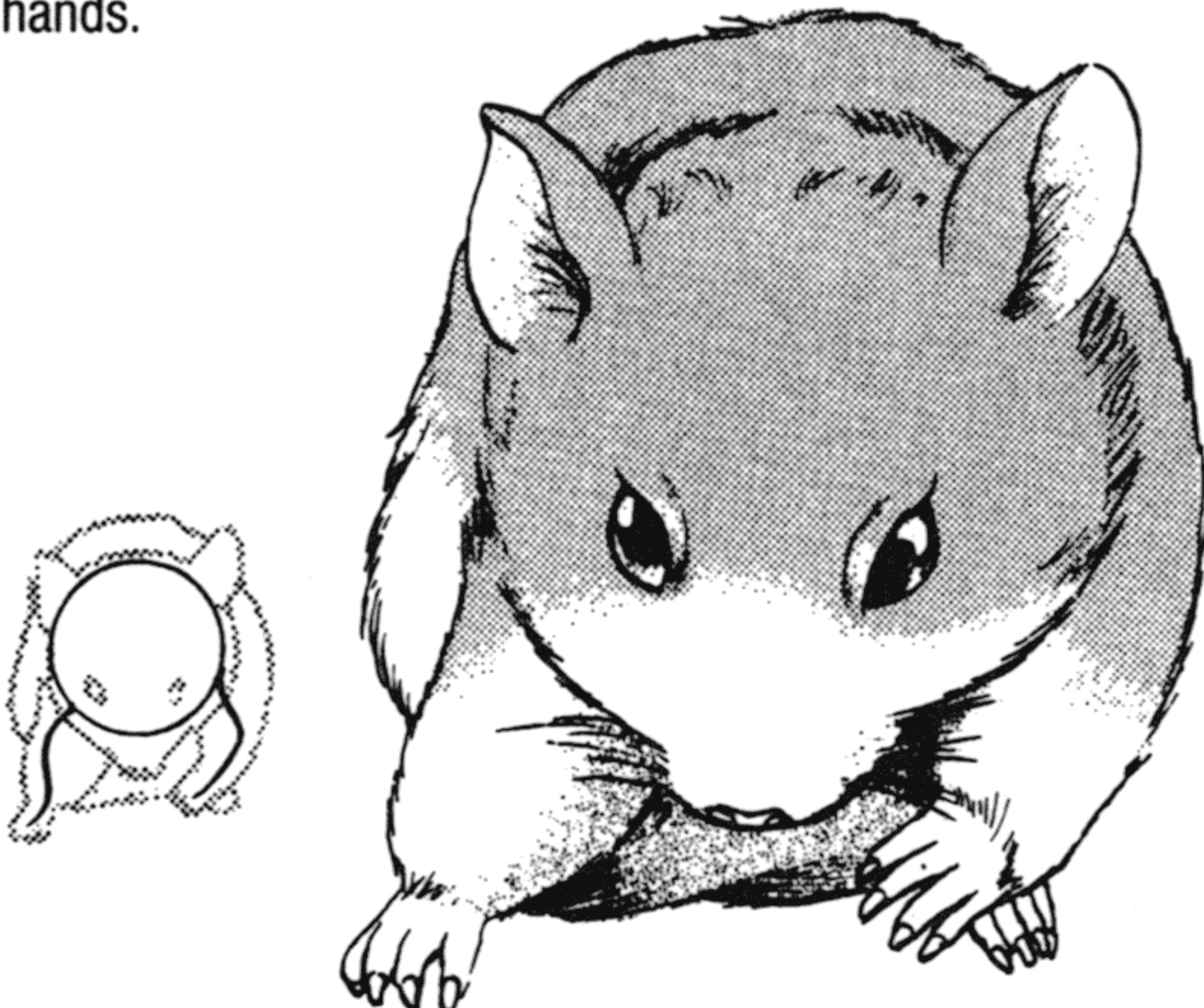
The tail is inconspicuous.



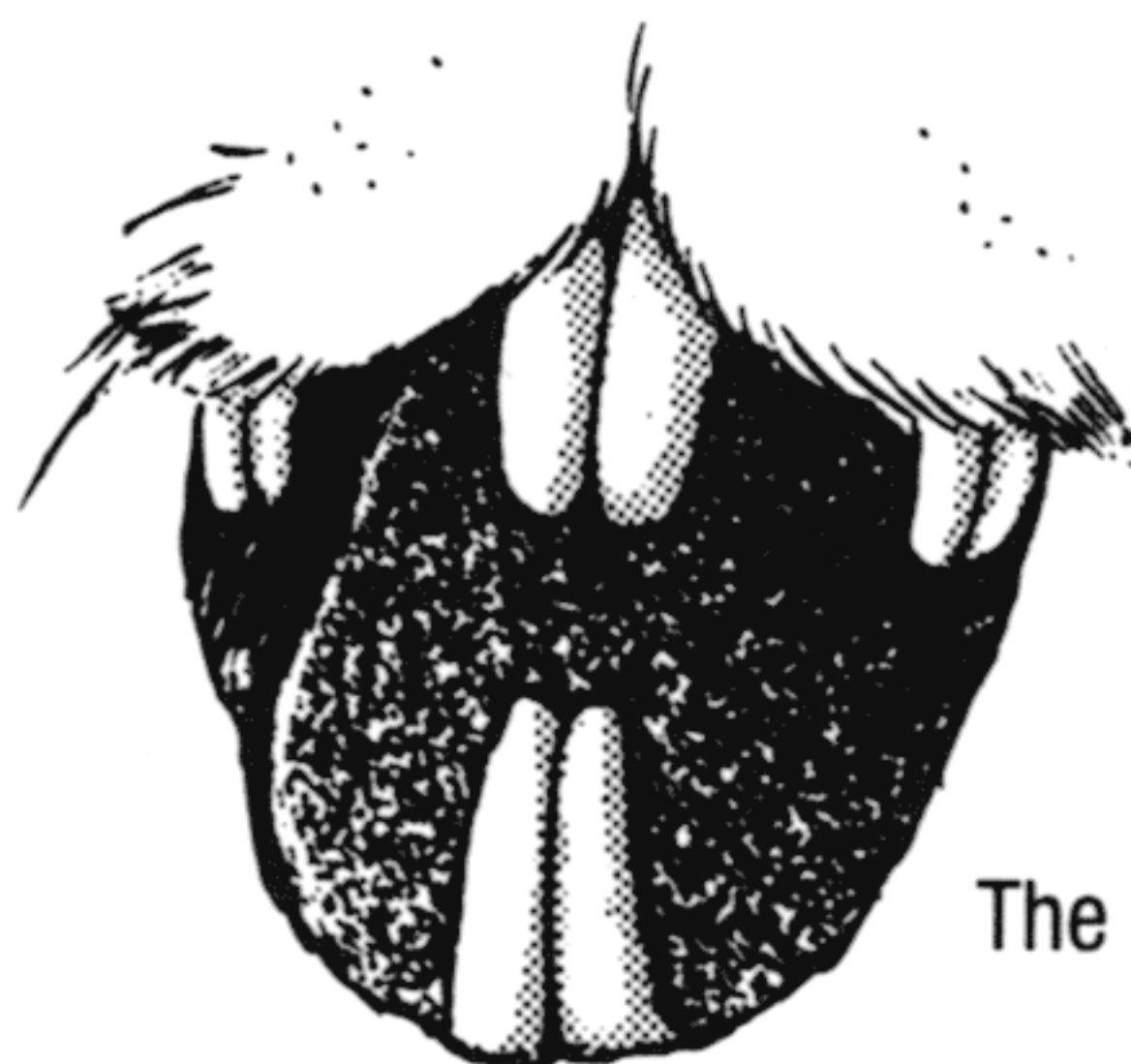
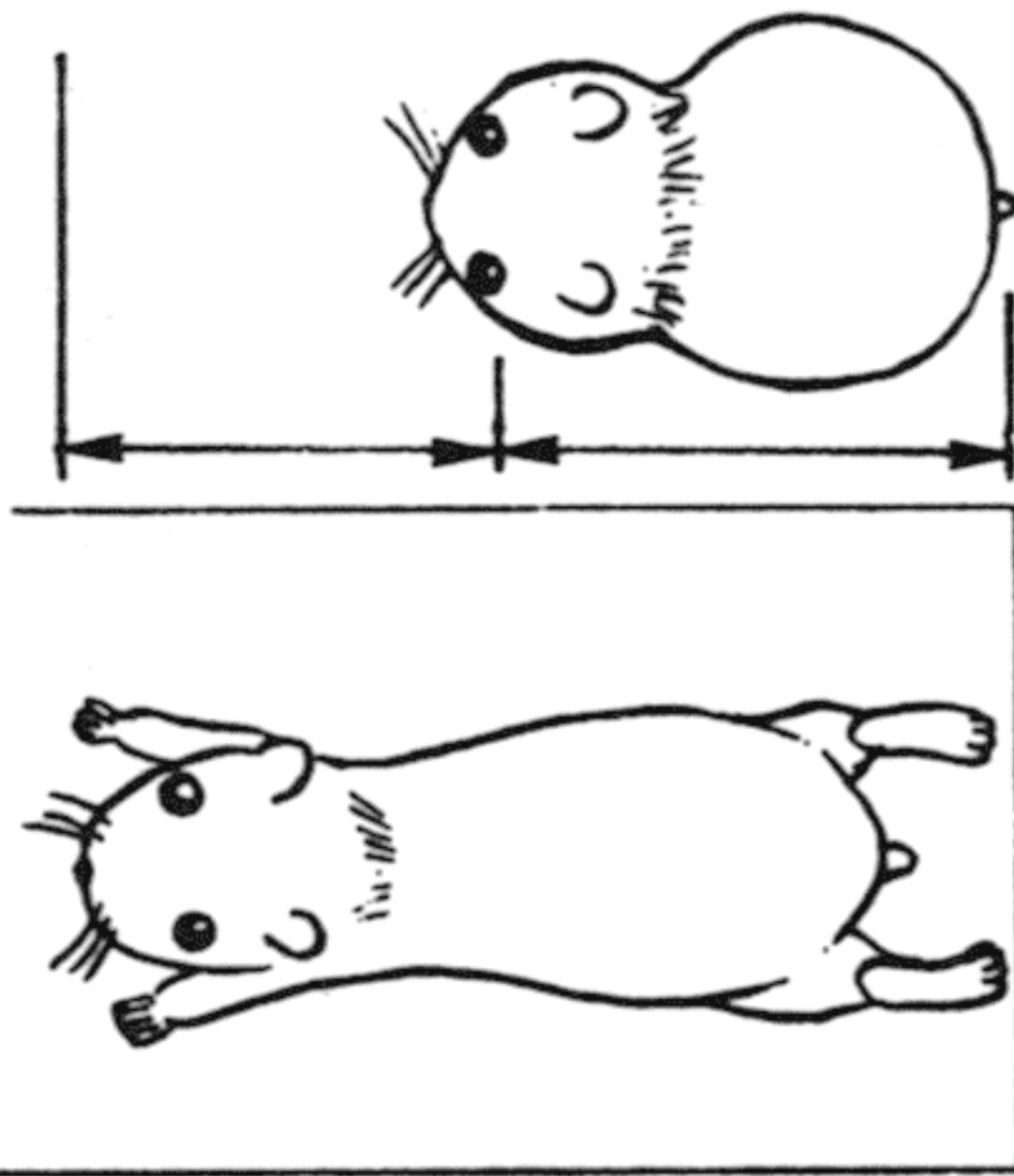
The front paws are reminiscent of human hands.



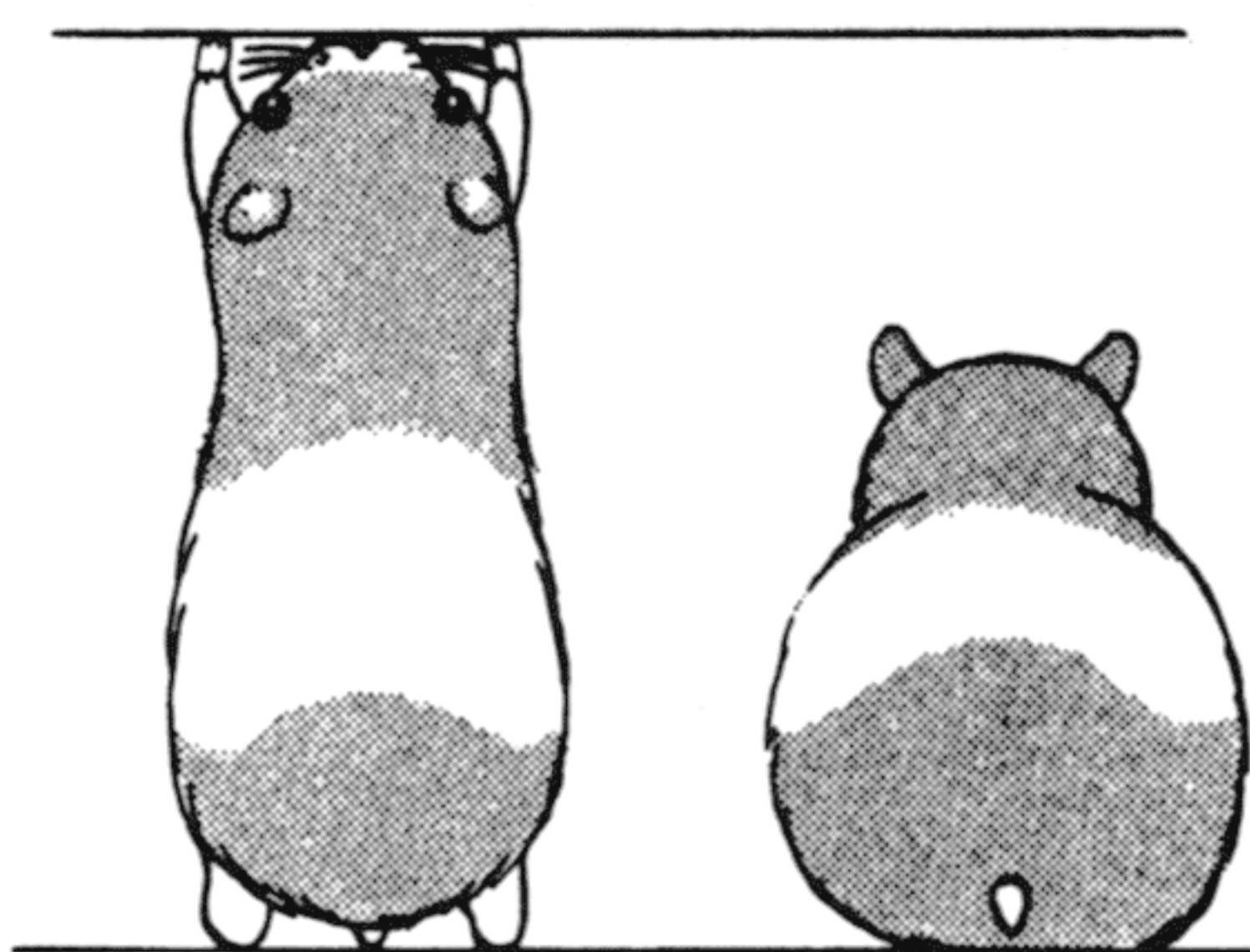
The hind legs' toes are long, and each claw emerges from the whole tip of the toe.



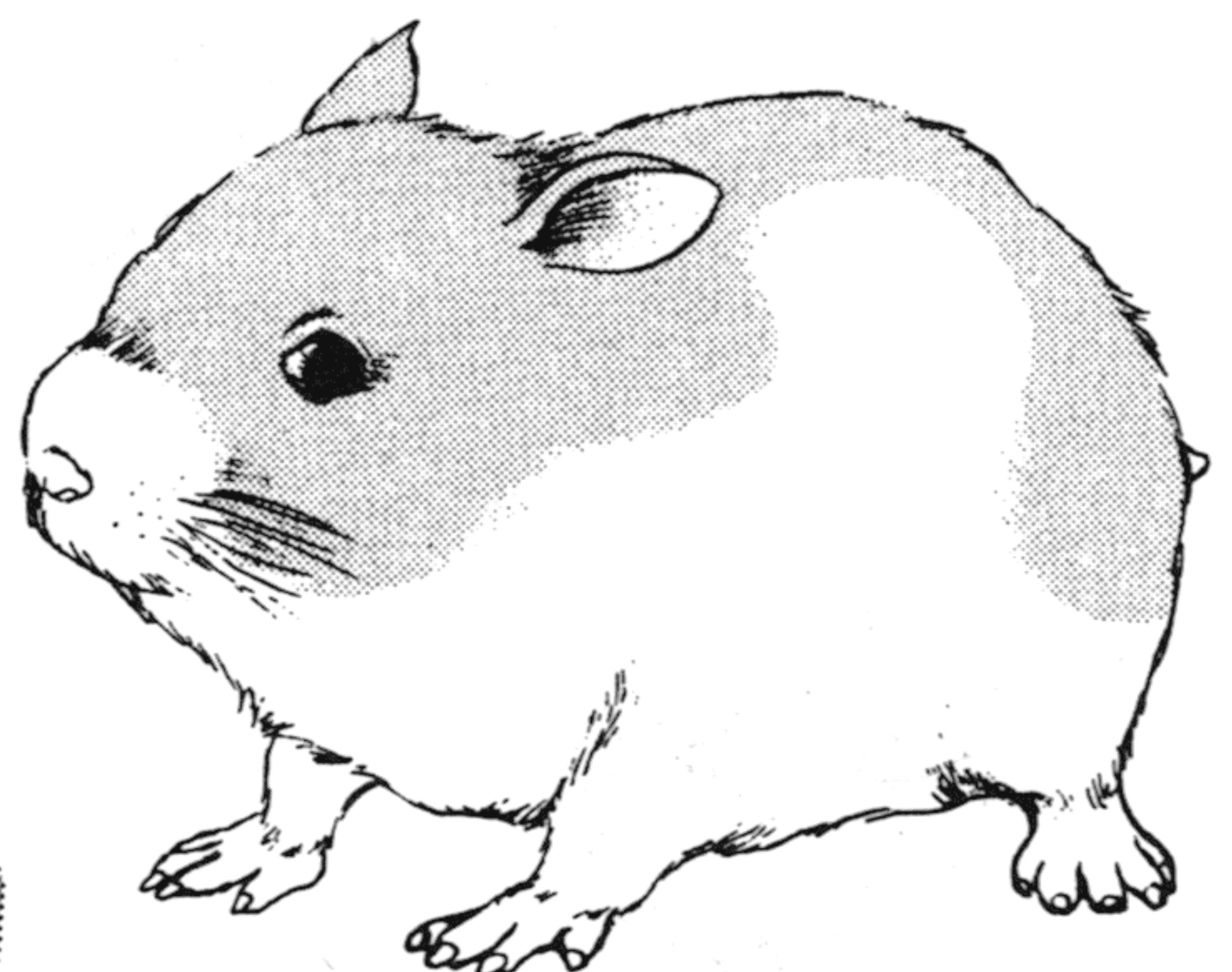
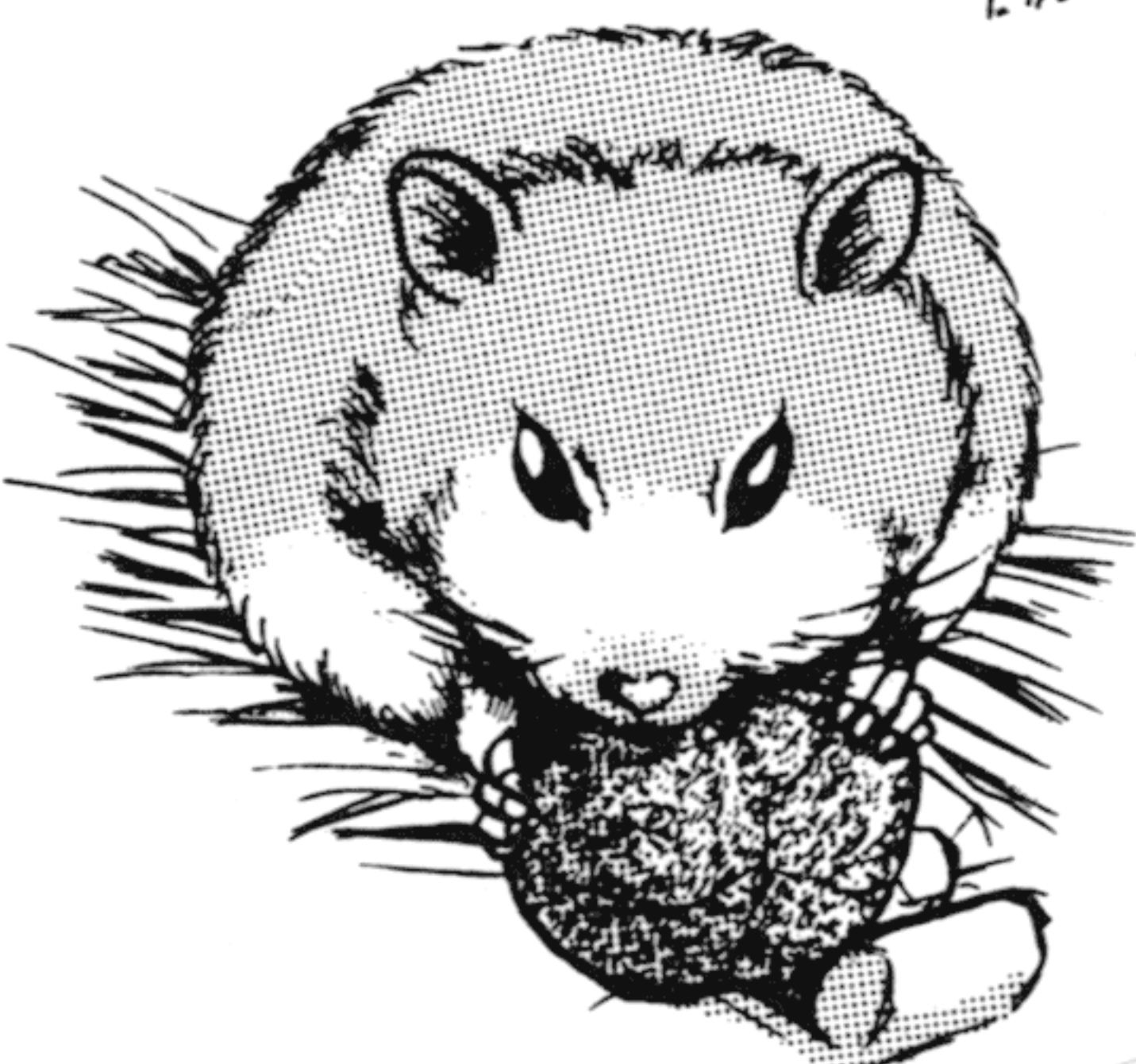
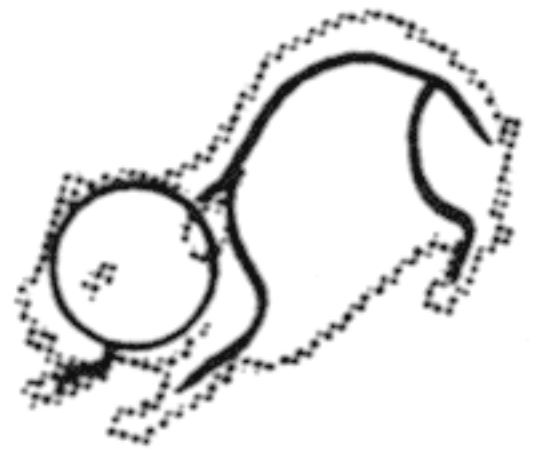
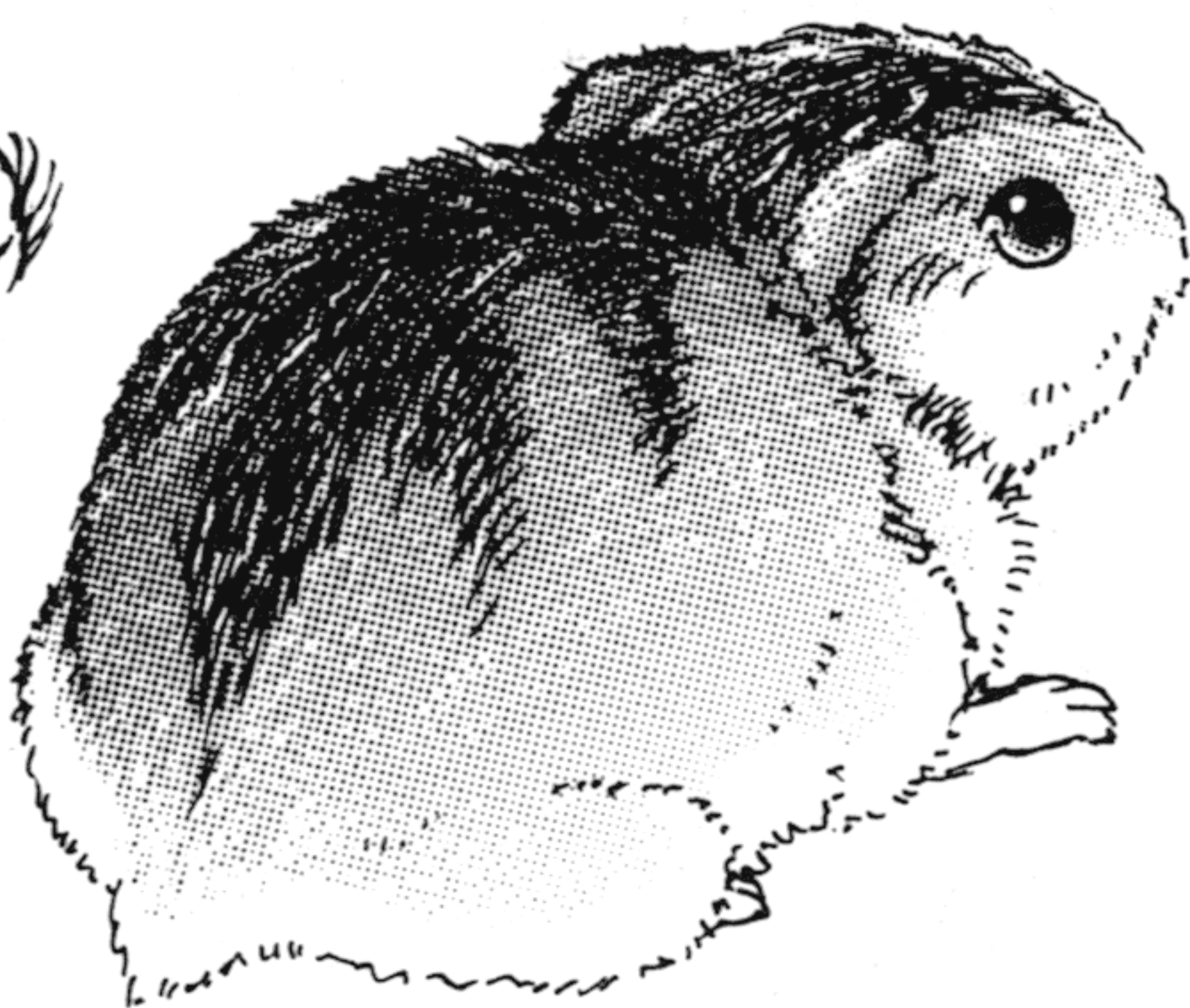
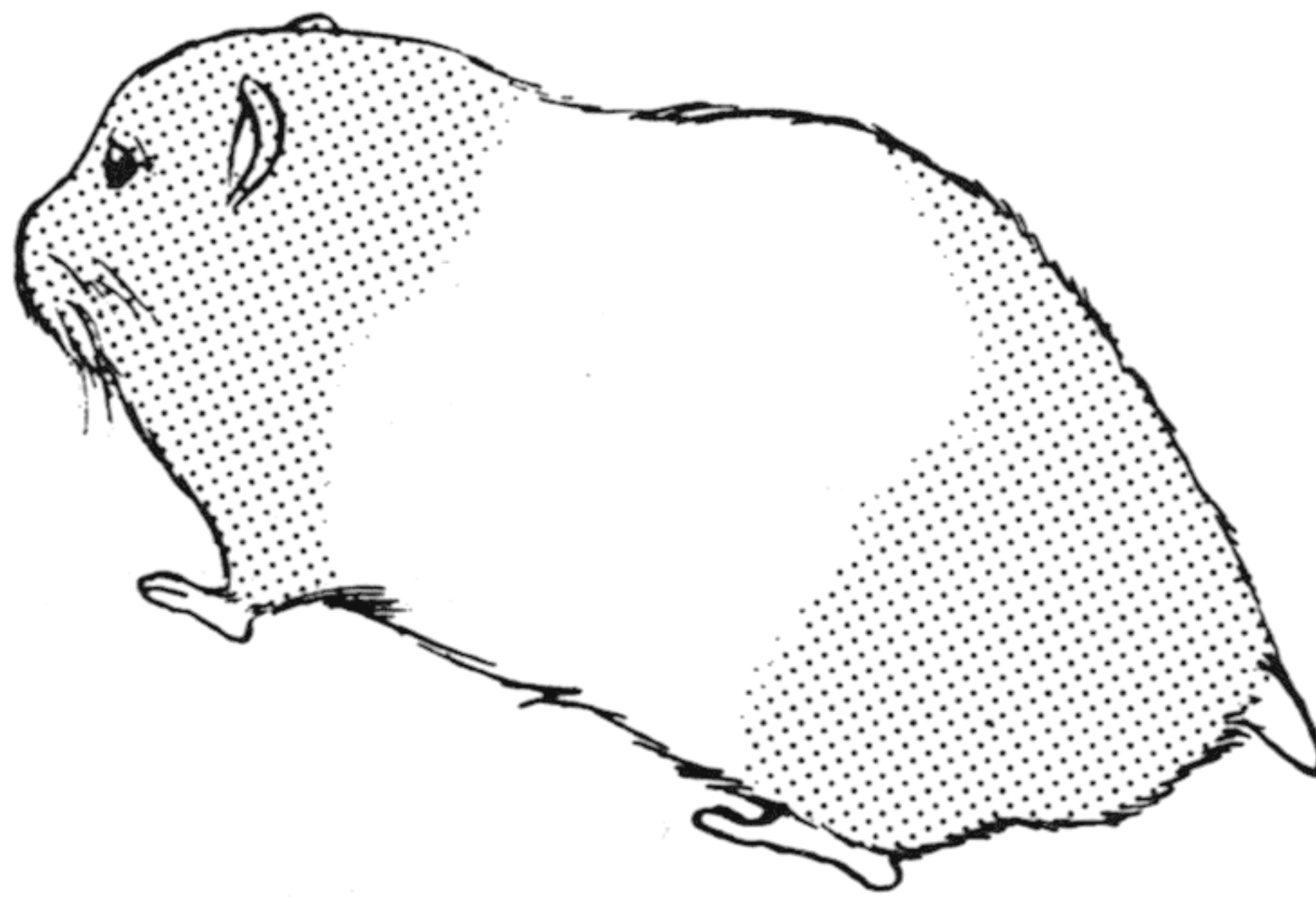
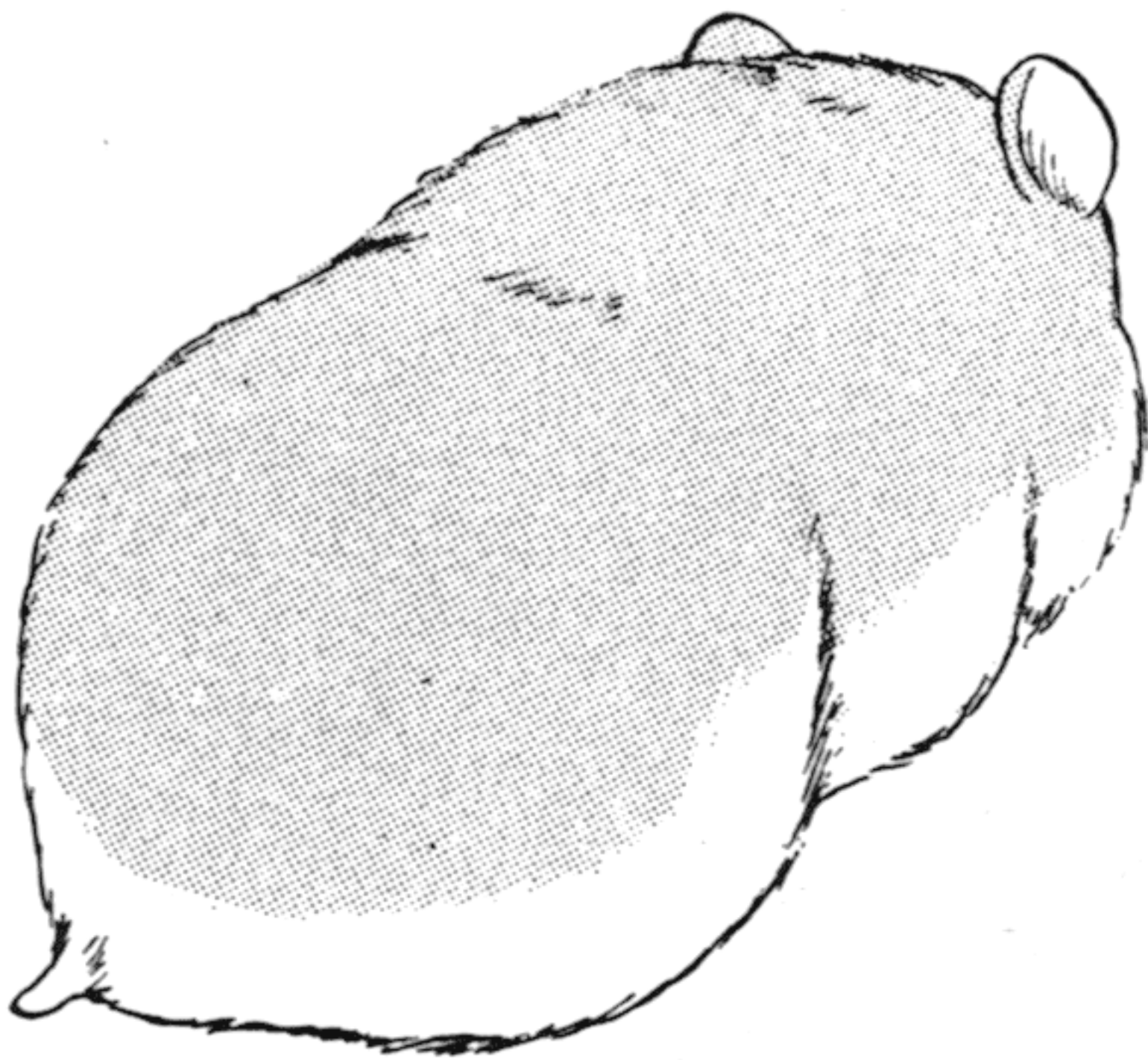
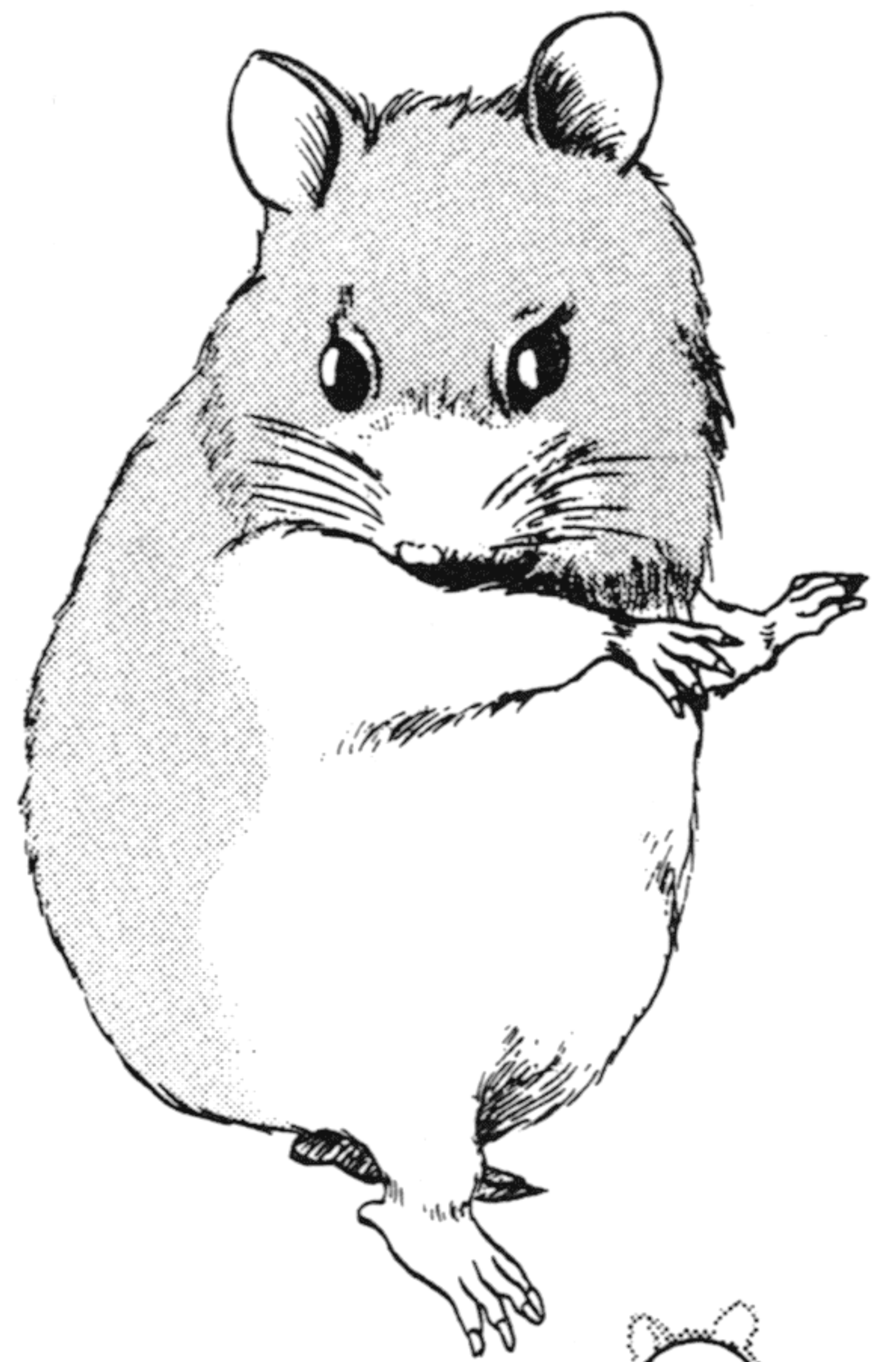
When stretching, the hamster appears to double its normal length.



The bottom row of teeth are longer.



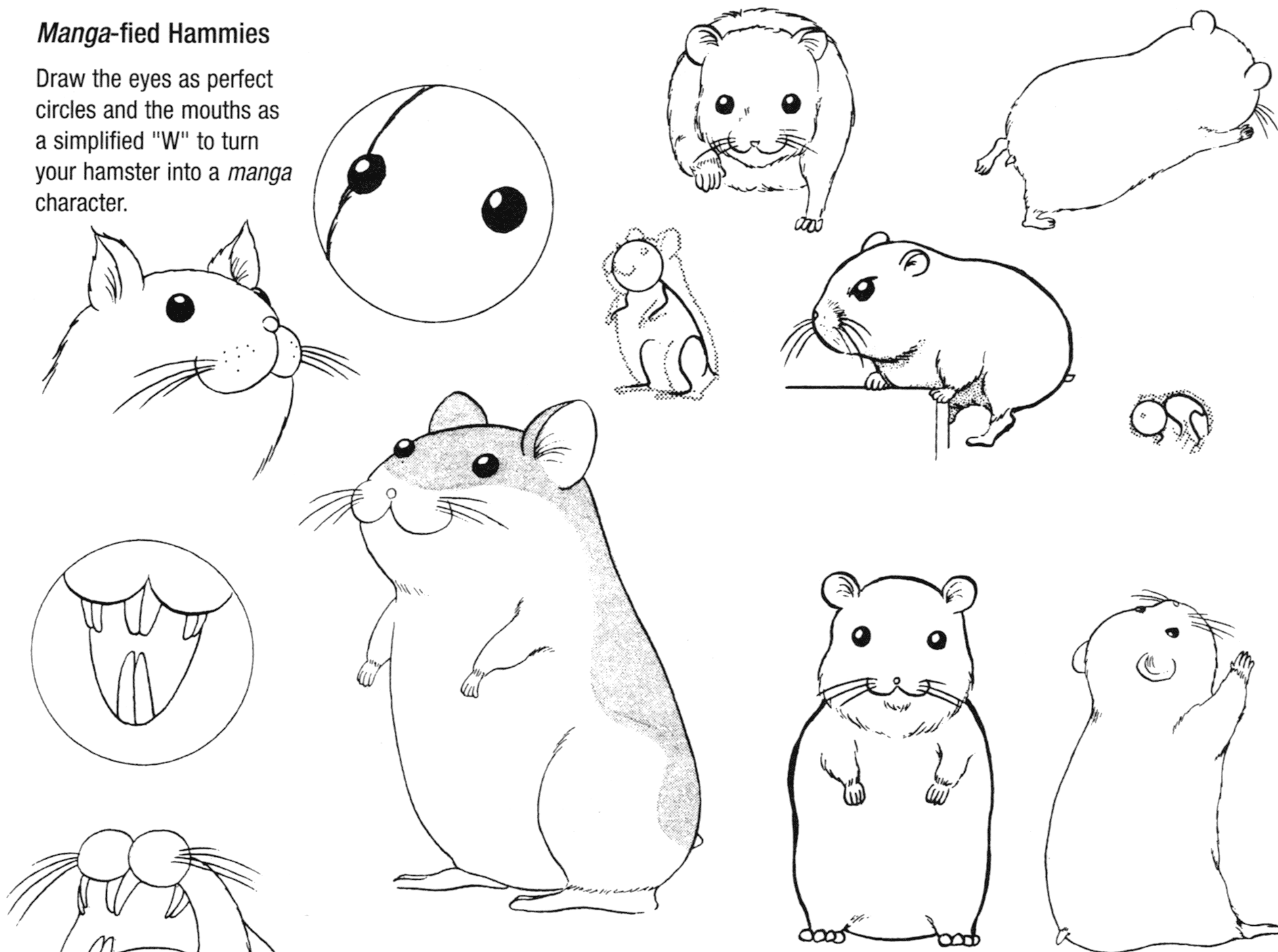




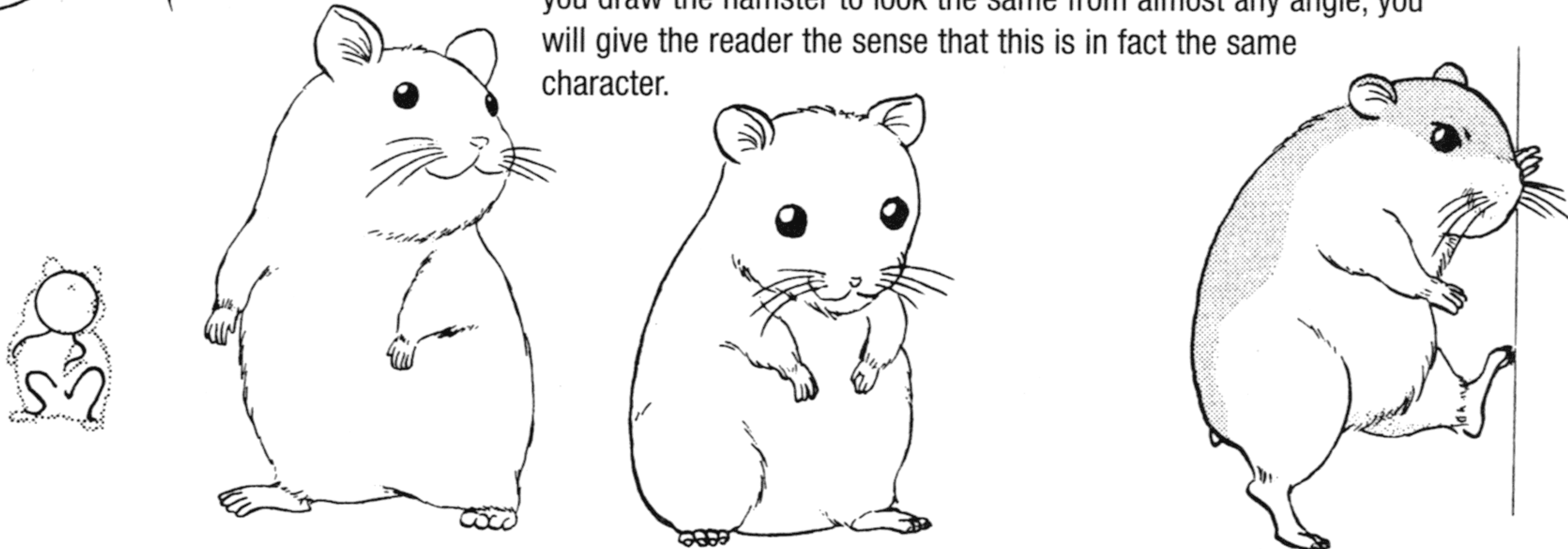


## Manga-fied Hammies

Draw the eyes as perfect circles and the mouths as a simplified "W" to turn your hamster into a *manga* character.

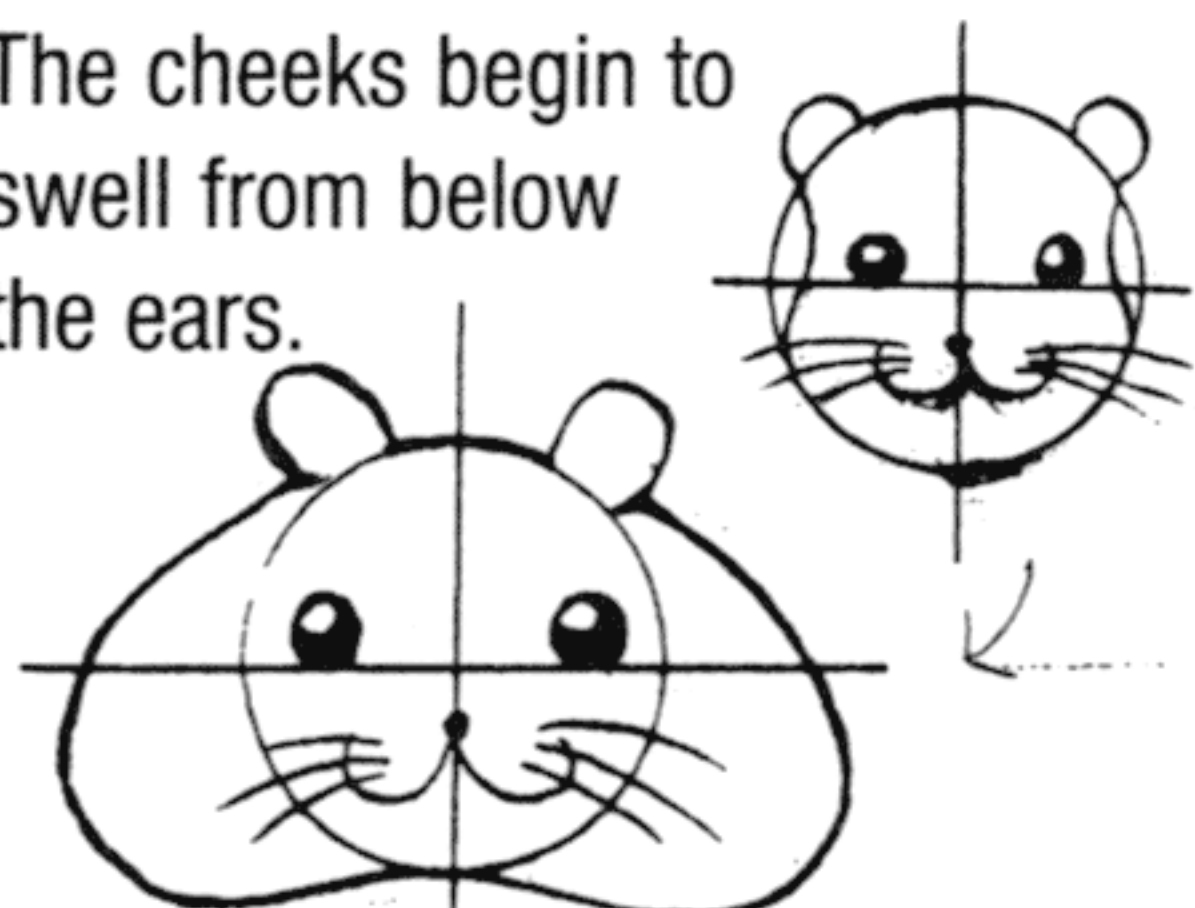


Decide where to place the white spot (reflected light) in the eye. If you draw the hamster to look the same from almost any angle, you will give the reader the sense that this is in fact the same character.

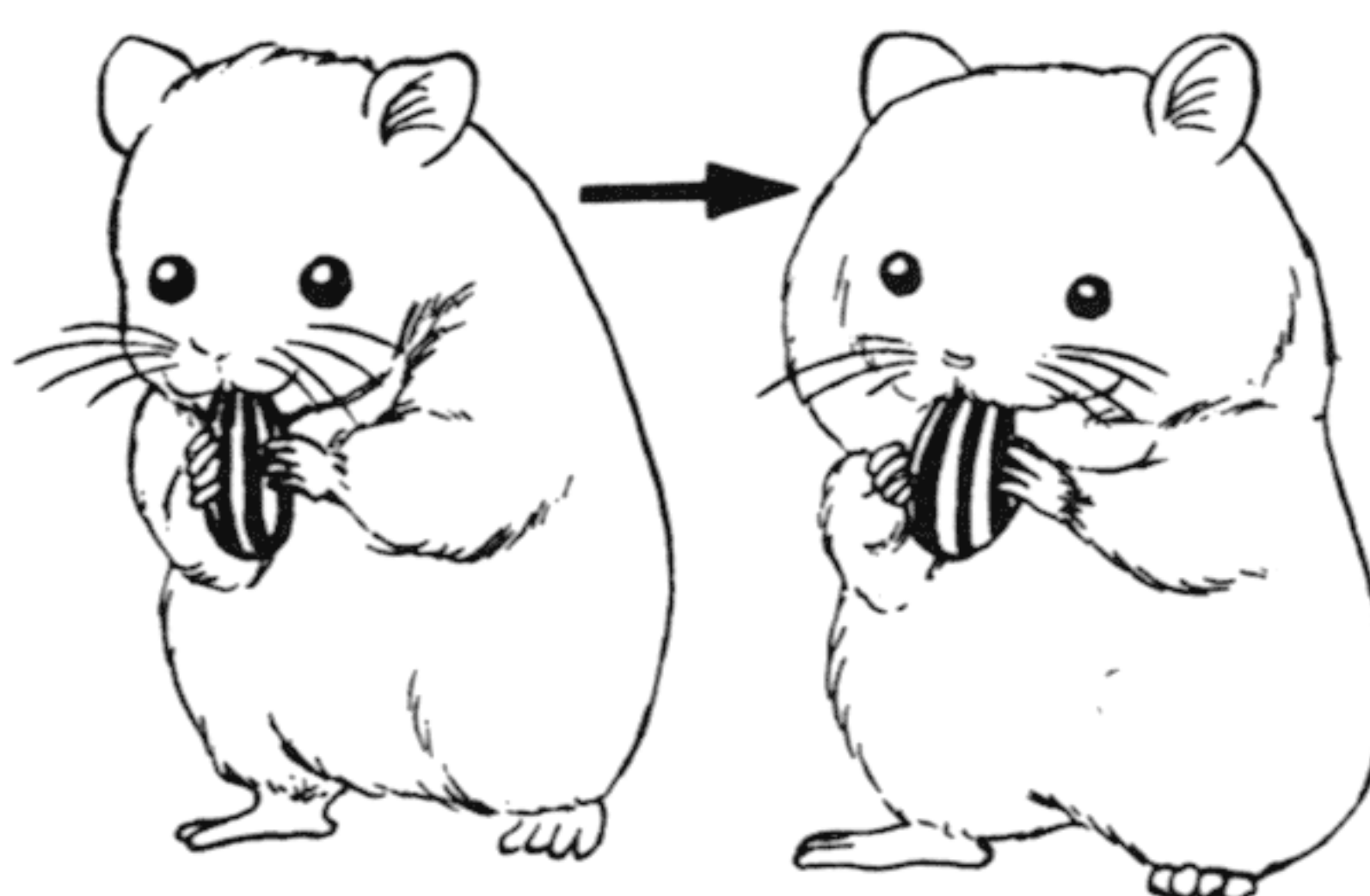


## Stuffed with Goodies

The cheeks begin to swell from below the ears.



The cheek pouches are bigger than those of a squirrel.



When the hamster crams its cheek pouches full of food, the face expands to twice its normal width.





Horses

From straight on, a horse's eyes appear to slant upward, giving them a stern expression. Prevent the legs from appearing to be simple sticks by drawing chunky joints, thus giving the legs some curve.

The horse's ears should be about as long as the horse's forehead is wide.

The ears should be spaced closer together than the eyes.

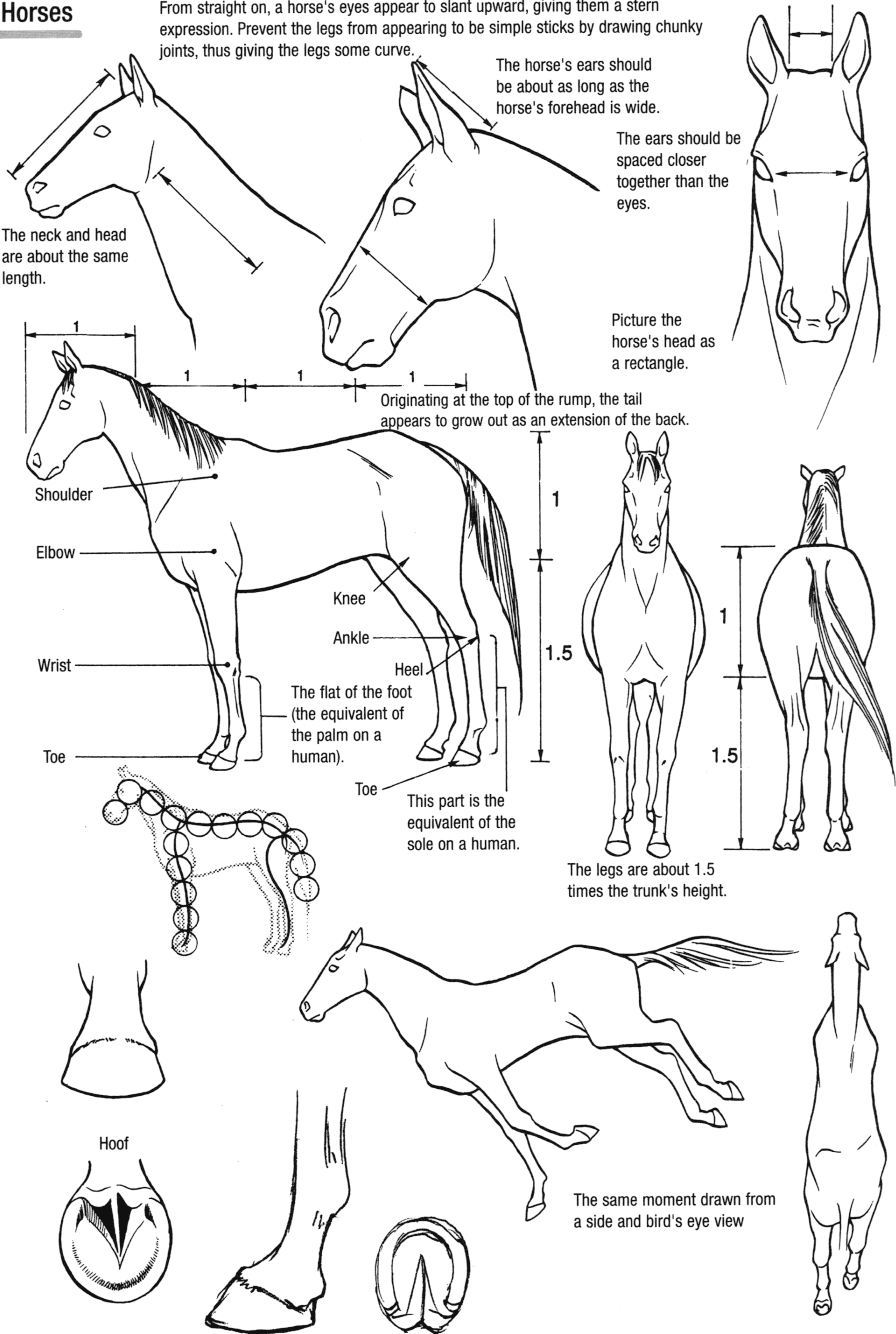
Picture the horse's head as a rectangle.

The neck and head are about the same length.

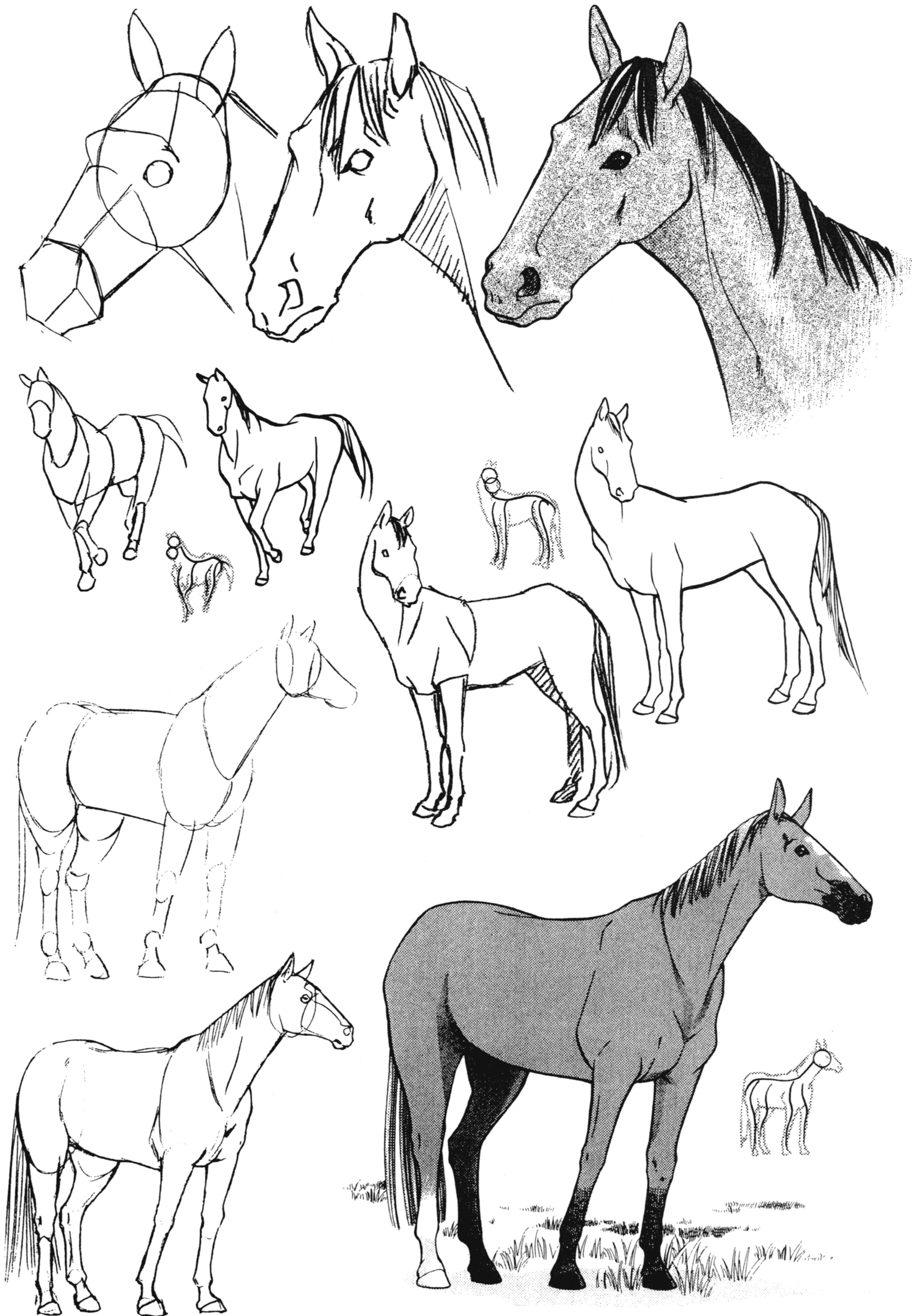
Originating at the top of the rump, the tail appears to grow out as an extension of the back.

The legs are about 1.5 times the trunk's height.

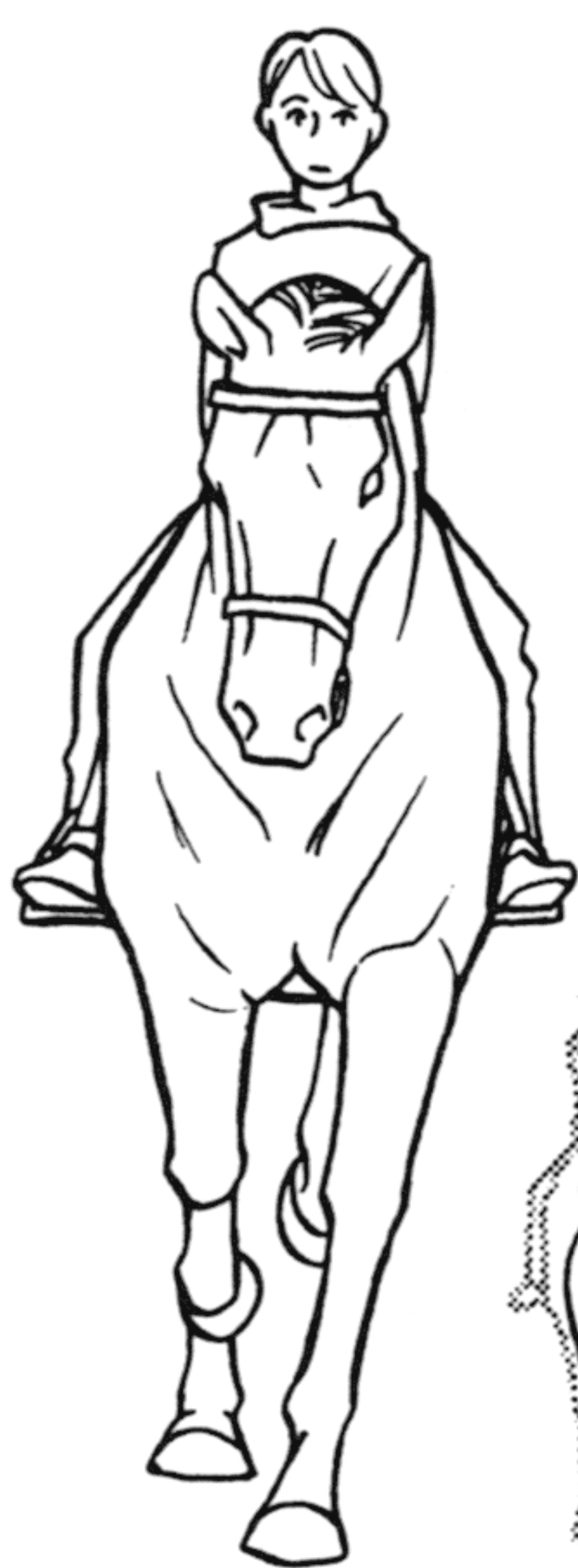
The same moment drawn from a side and bird's eye view



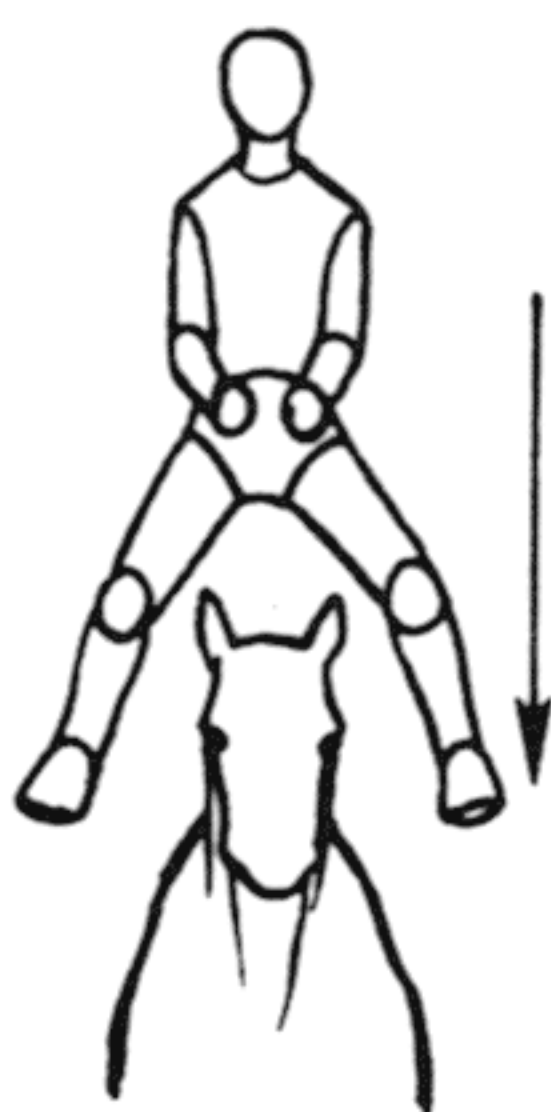




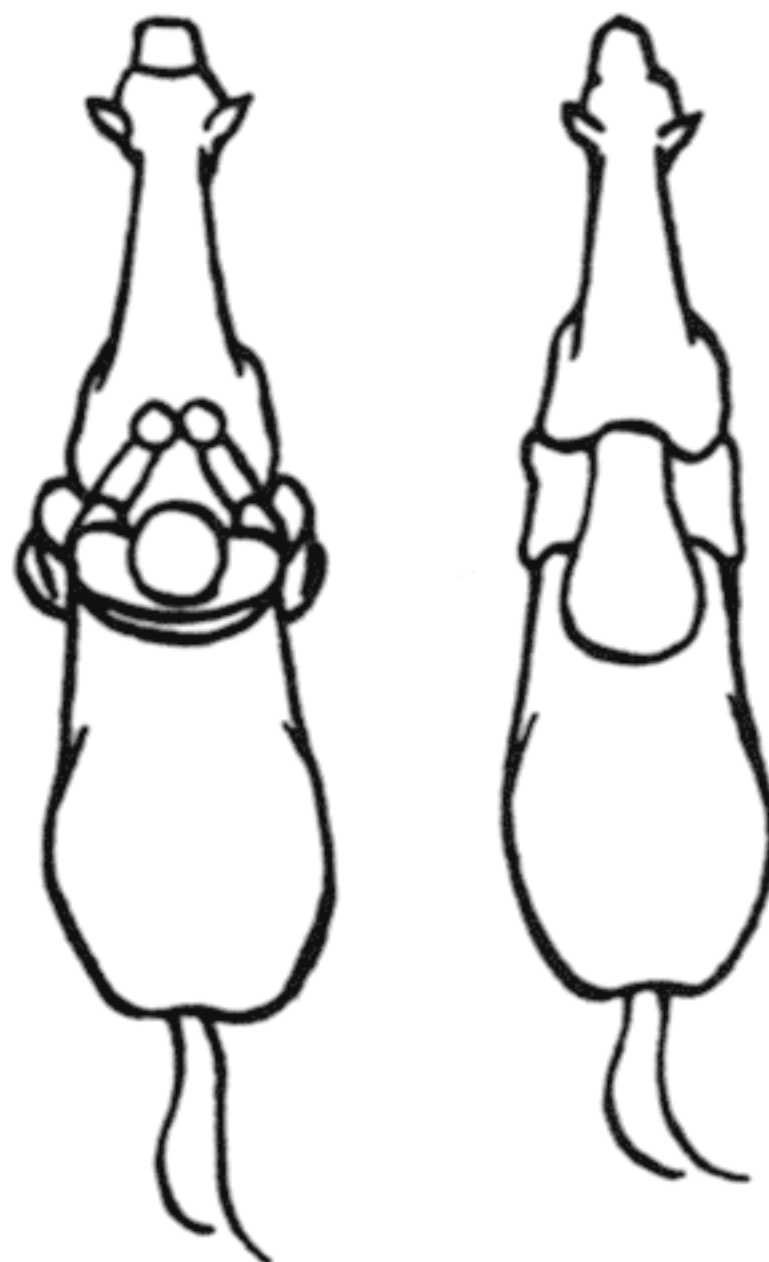




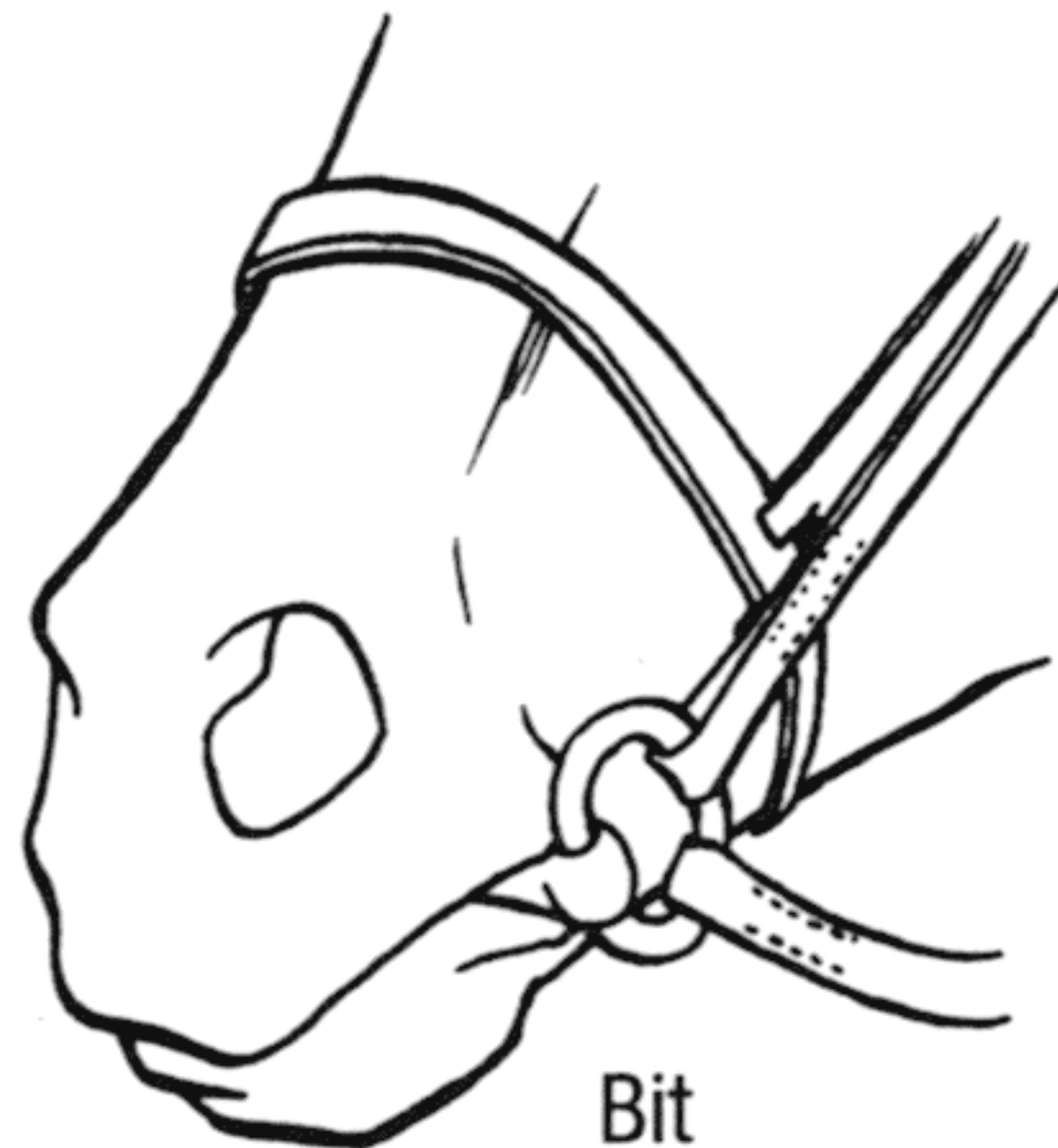
The horse's head typically obscures the rider up to the rider's chest.



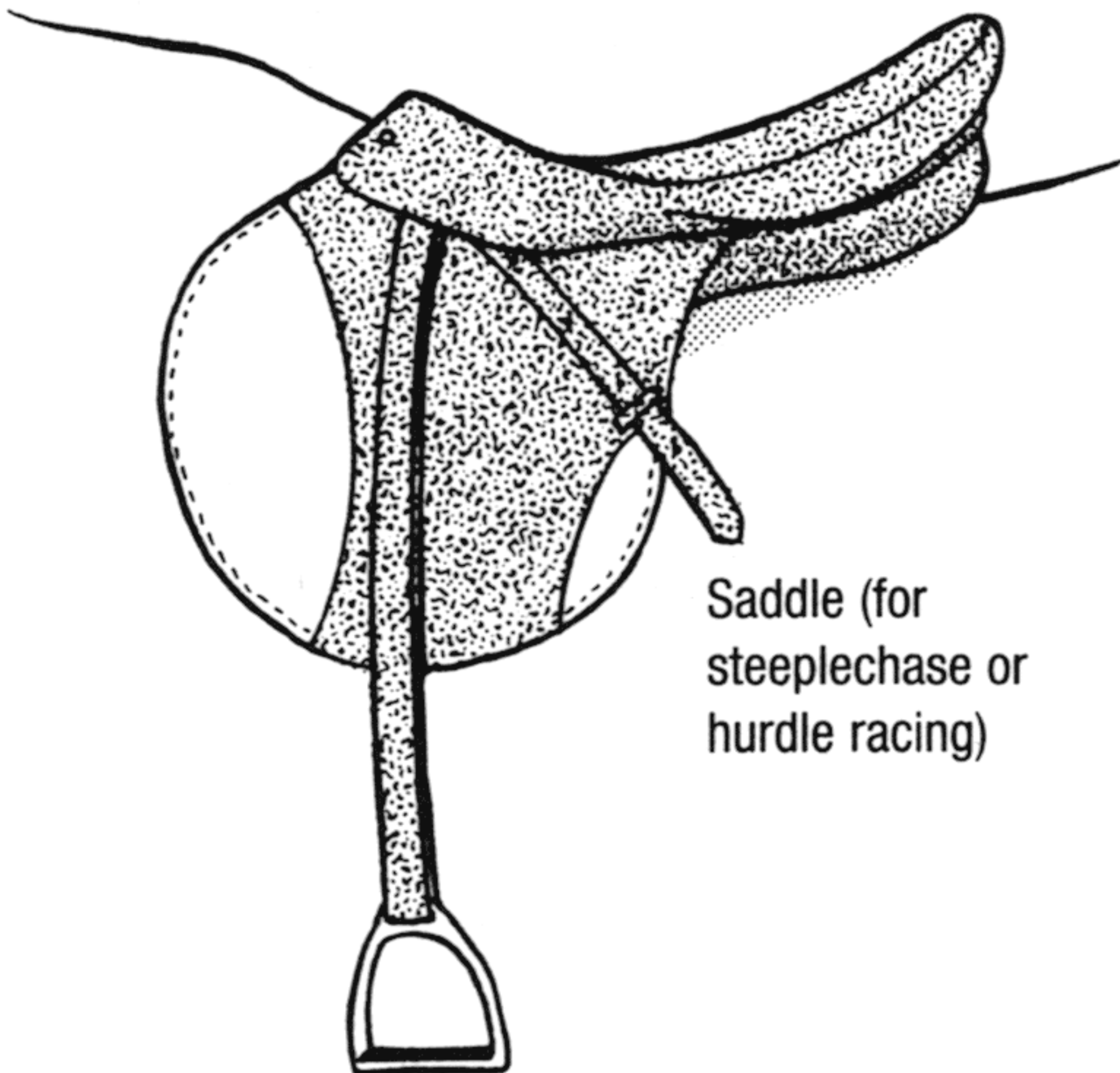
Position of the rider astride the horse



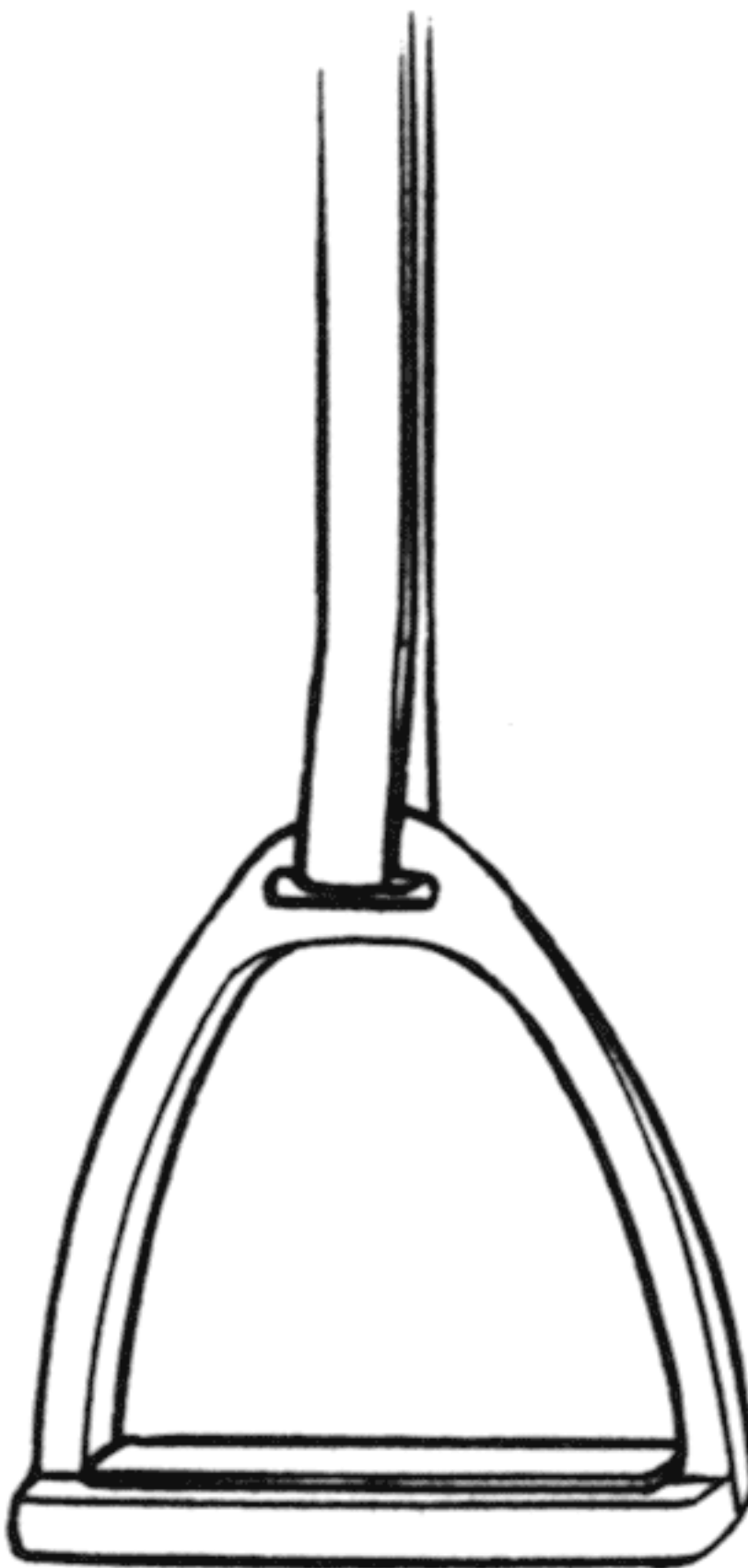
The foot is inserted from the outside of the stirrup.



Bit



Saddle (for steeplechase or hurdle racing)



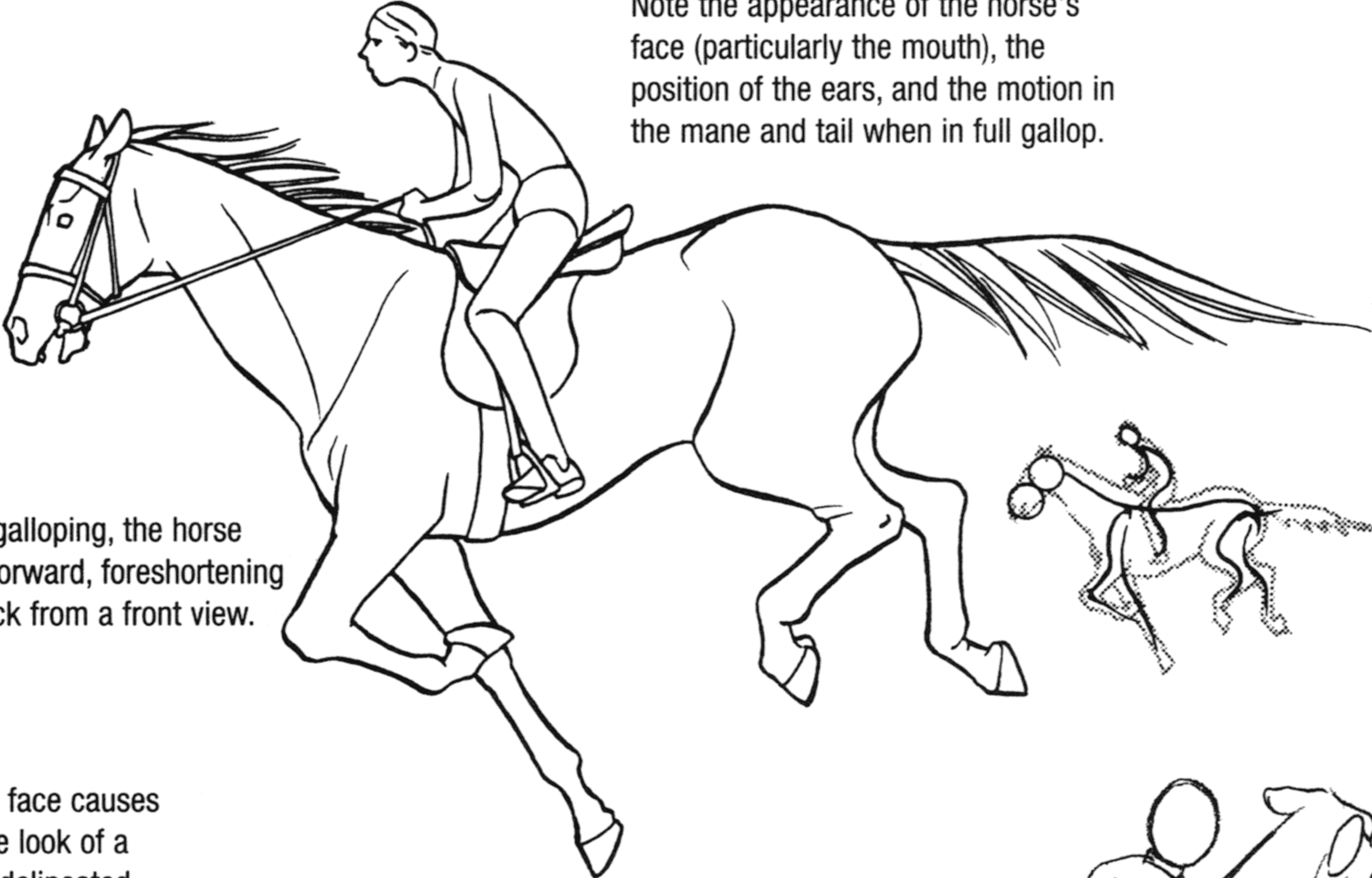
Stirrup



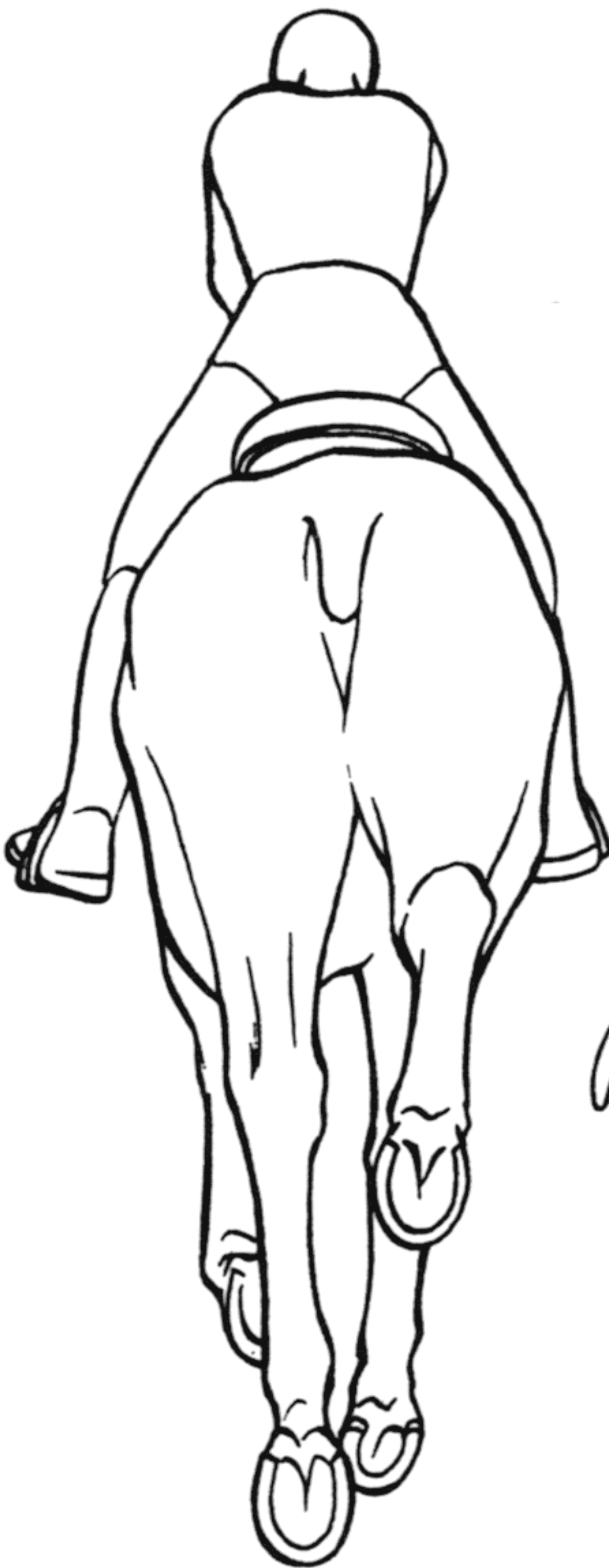
Note the appearance of the horse's face (particularly the mouth), the position of the ears, and the motion in the mane and tail when in full gallop.



When galloping, the horse leans forward, foreshortening the neck from a front view.



Foreshortening the horse's face causes the jaw to rise, creating the look of a running horse. Add clearly delineated, large nostrils.



Drawing the hooves' underside in full view suggests that the horse is running.





Reclining

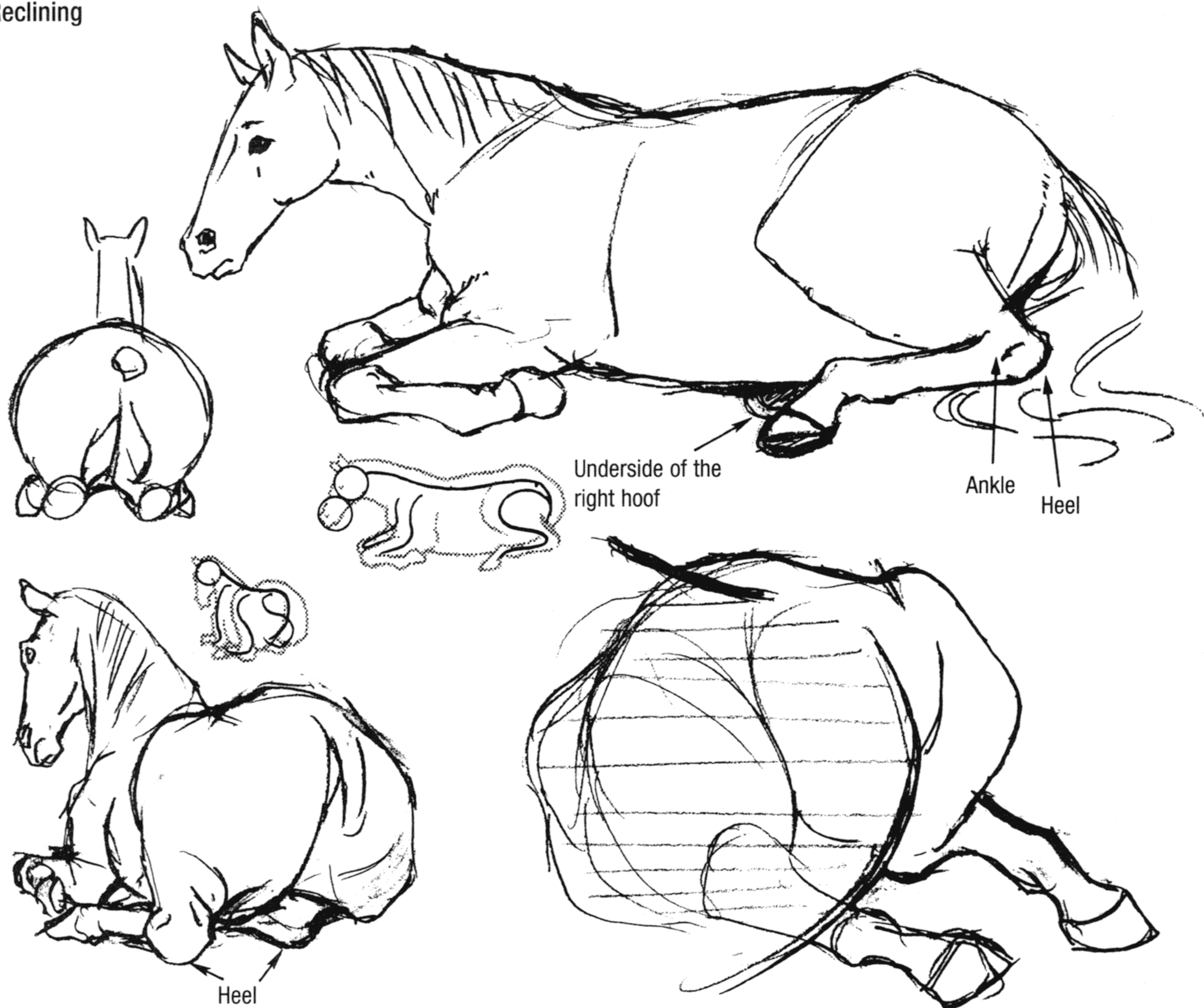
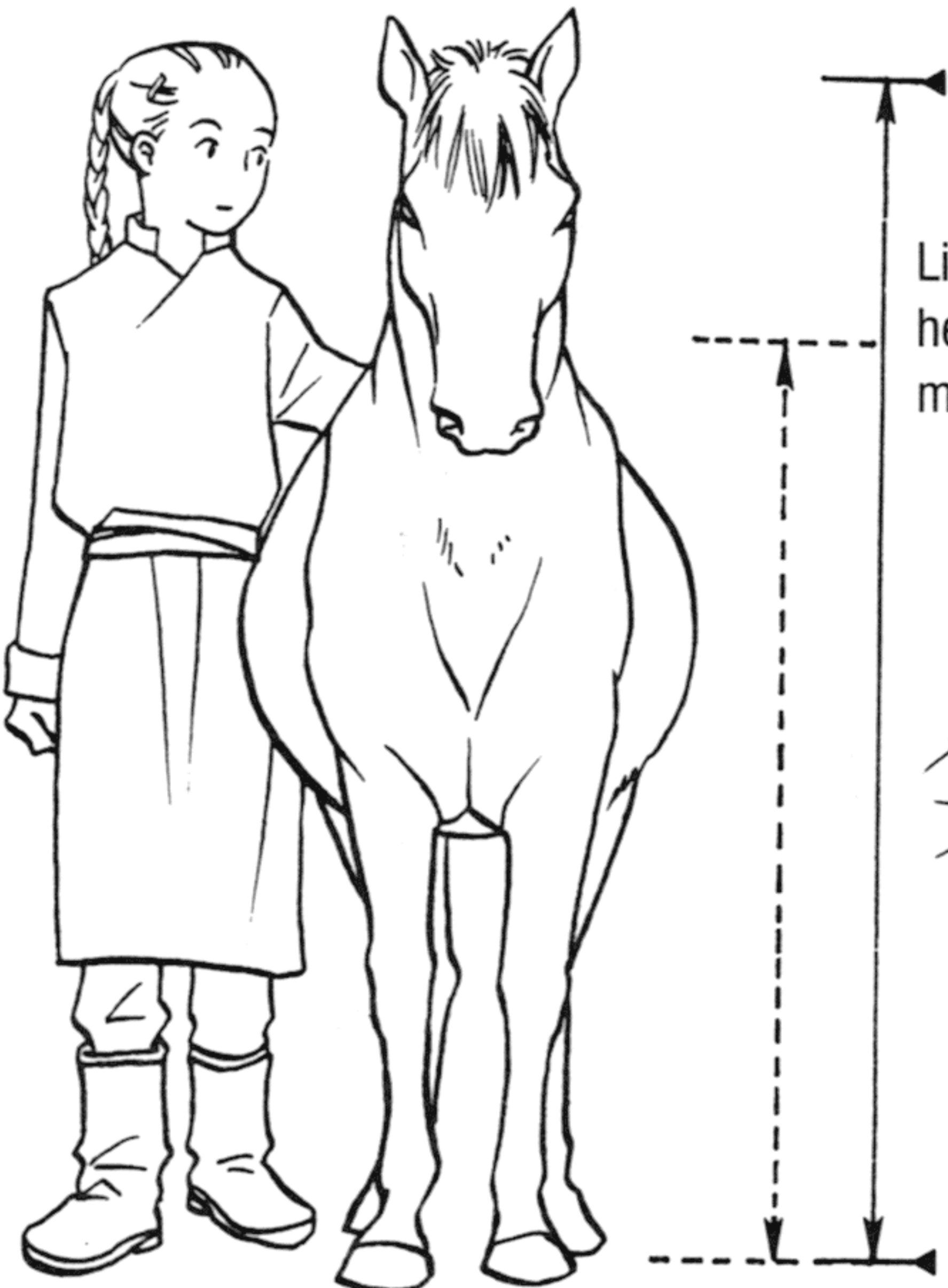
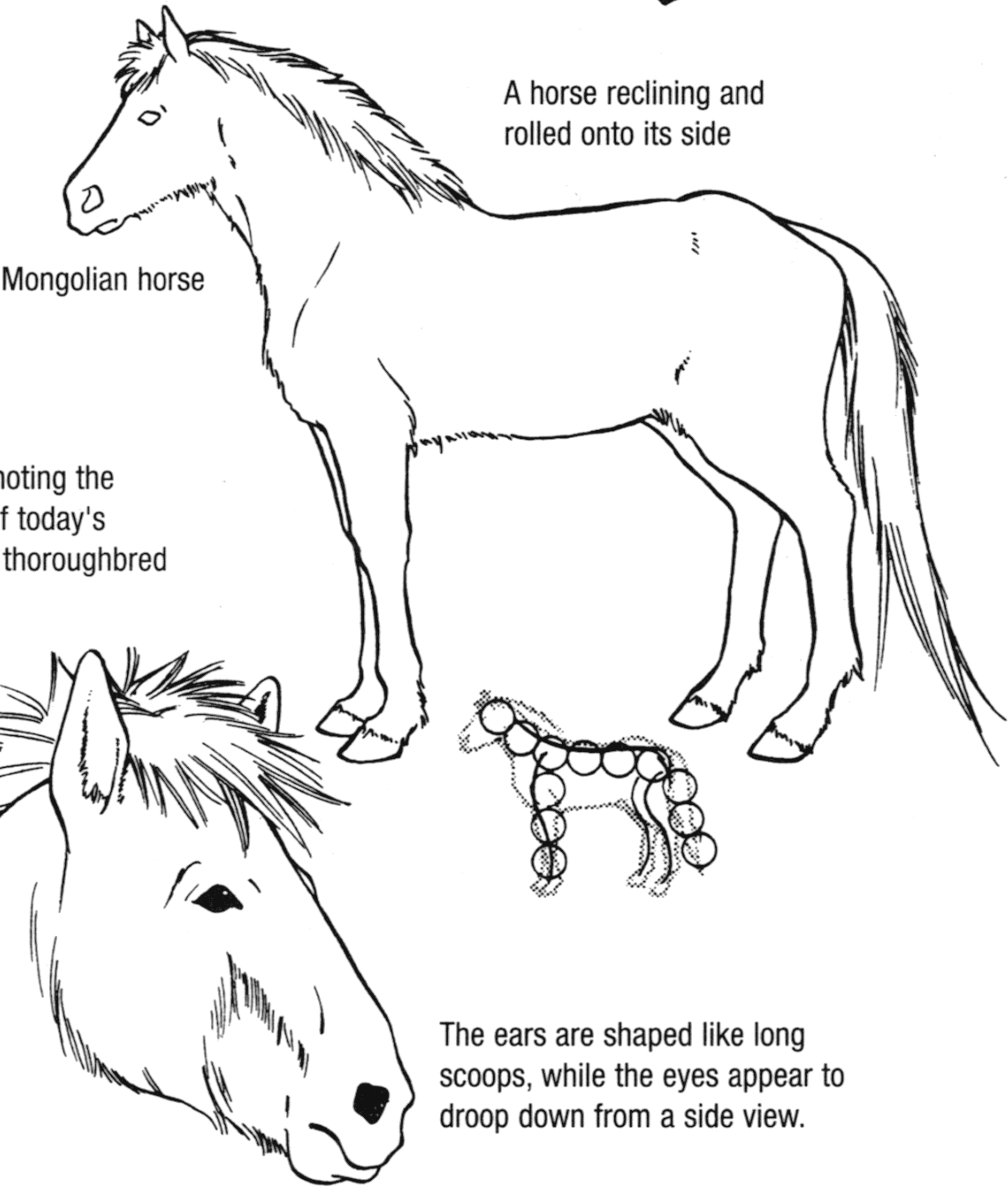


Fig. Showing Horse Similar to the Ancestor of the Modern Horse

Ancient horses were smaller and heavier built than today's domestic thoroughbred.



Line denoting the height of today's modern thoroughbred

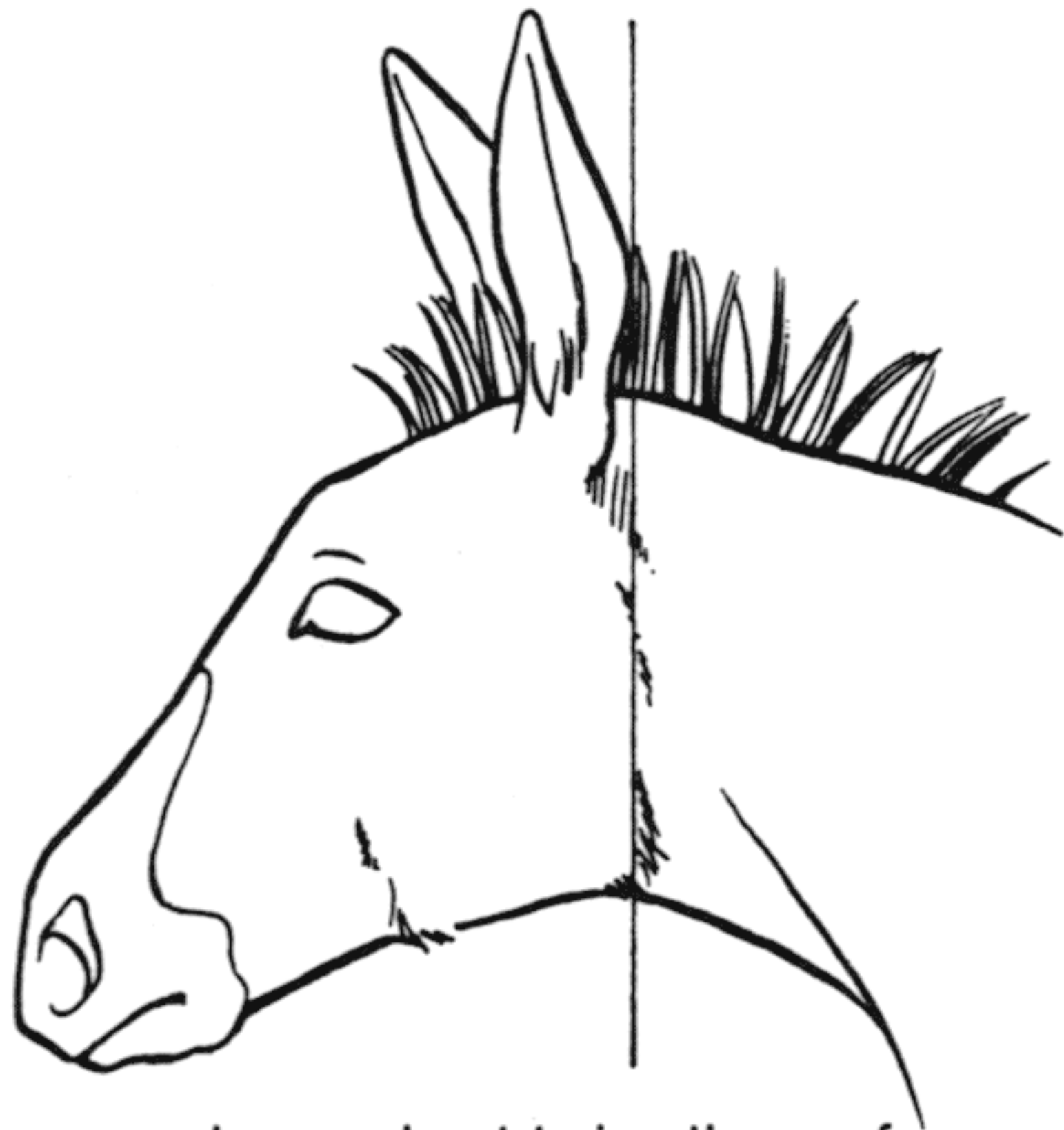


Donkeys

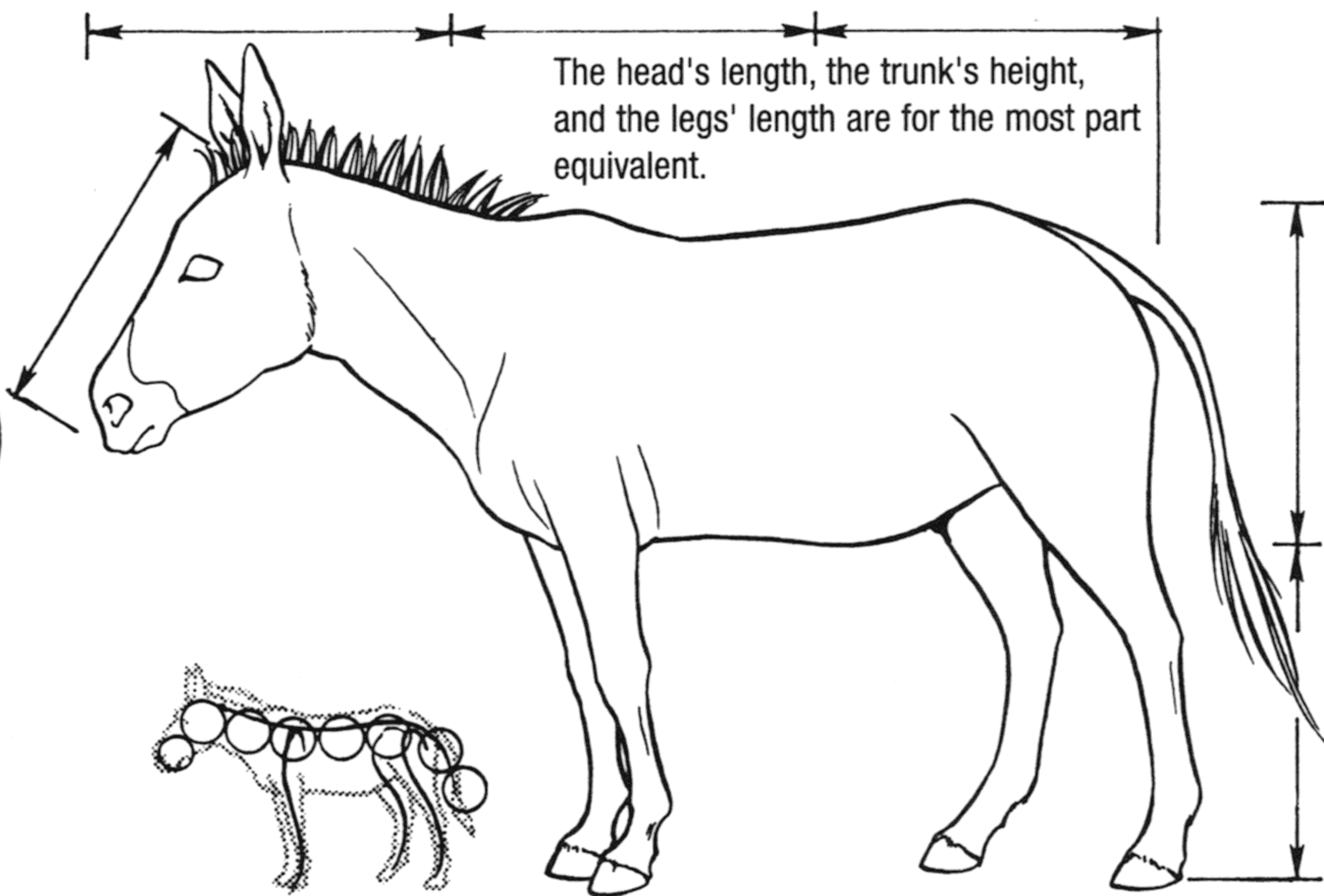
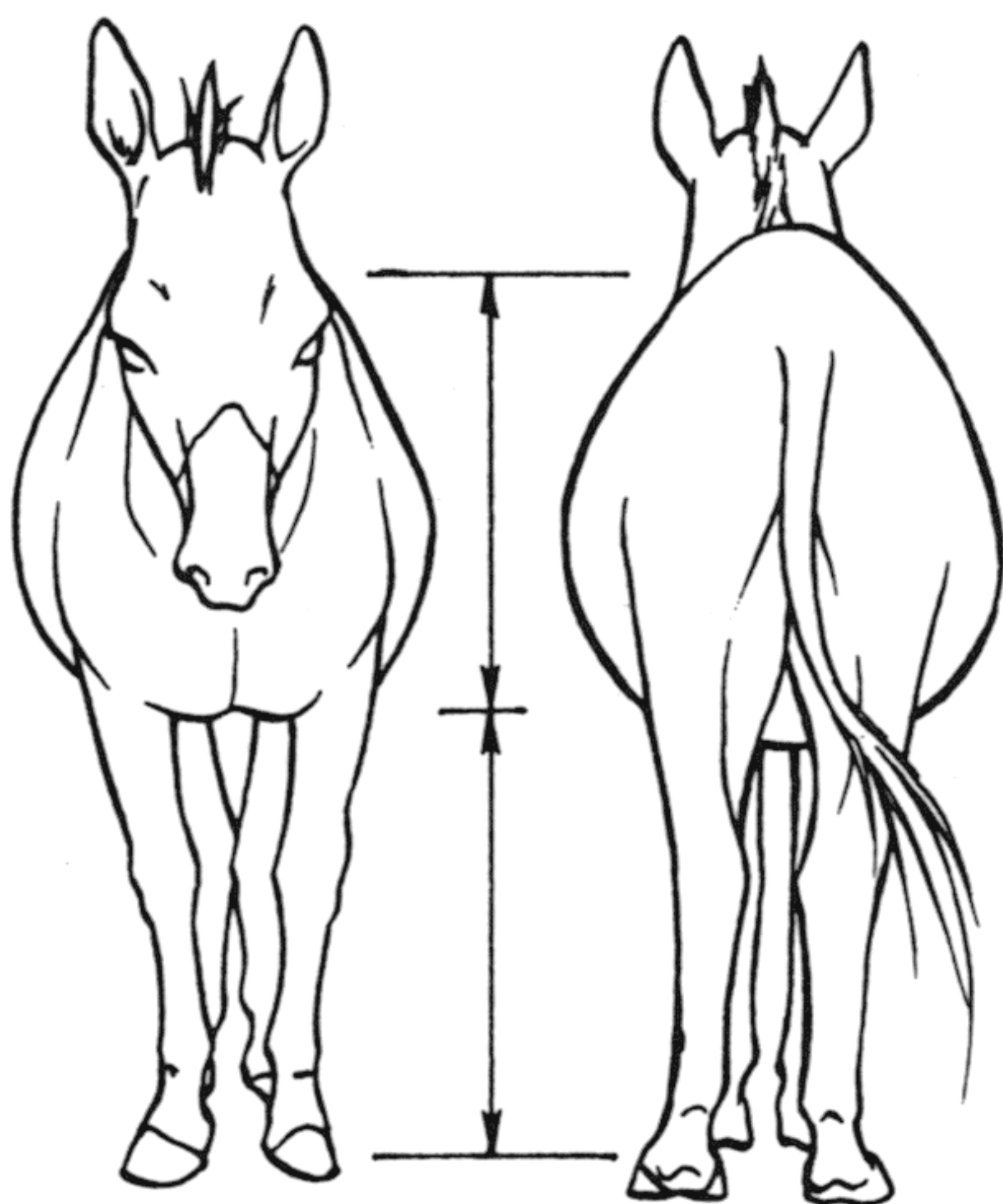
The distance between the ears is the same as the snout's width.

The distance from the eye to the base of the ear should be equal to the height of the ear itself.

The mane grows straight up. I recommend drawing it in clusters leaving space to the right and left of each tuft.

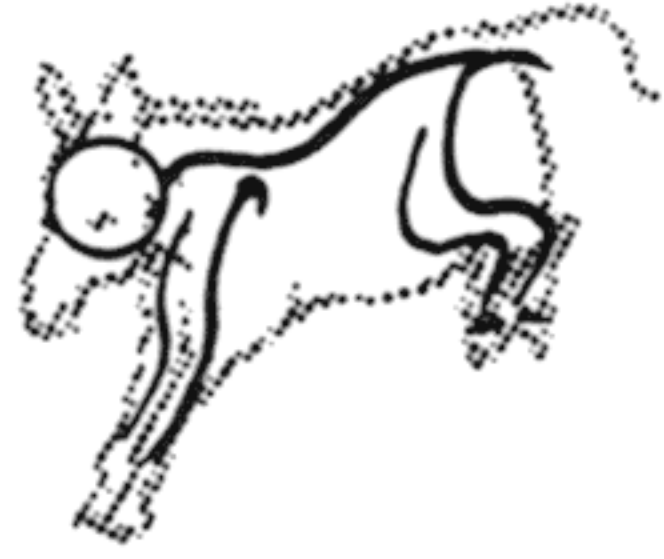
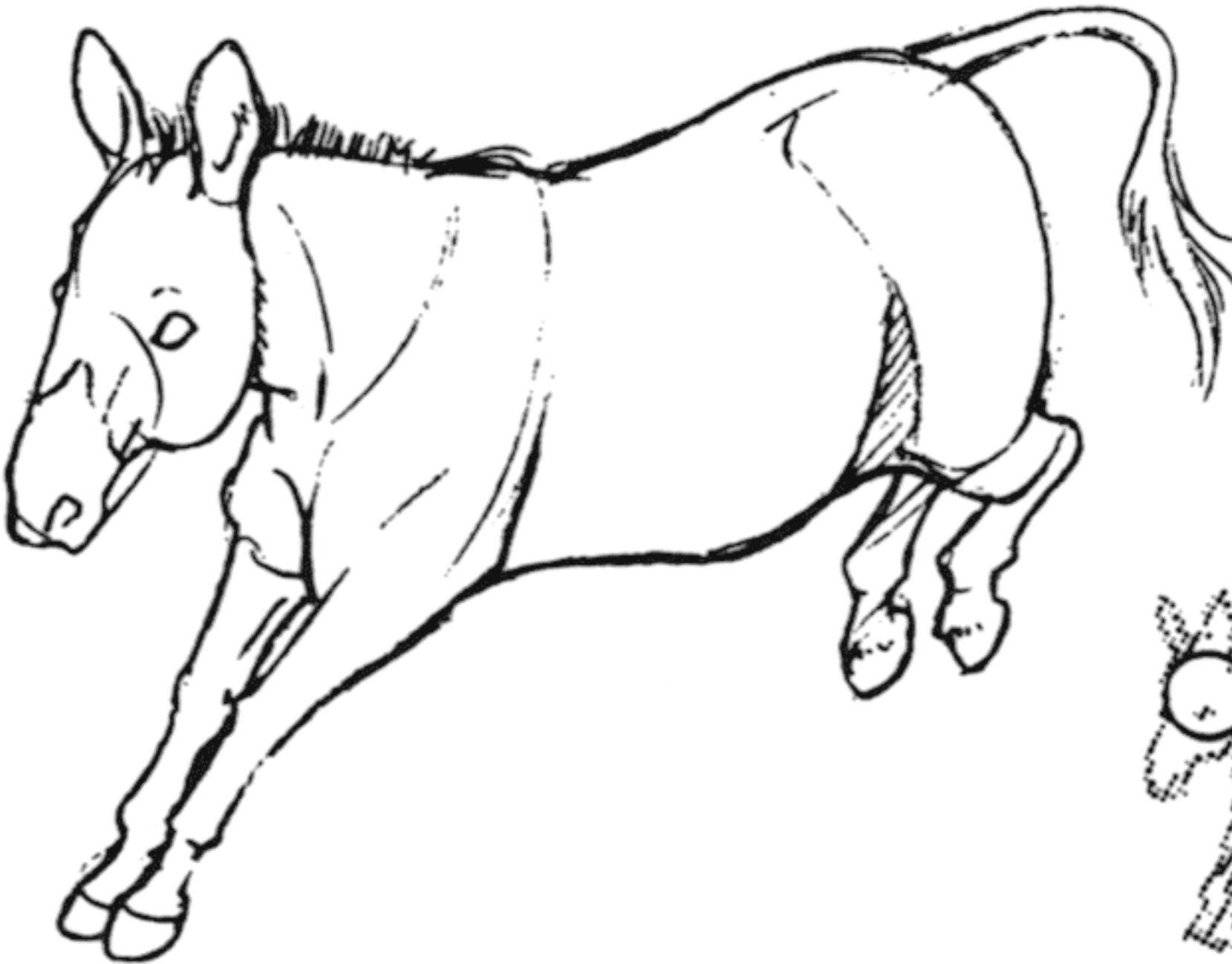
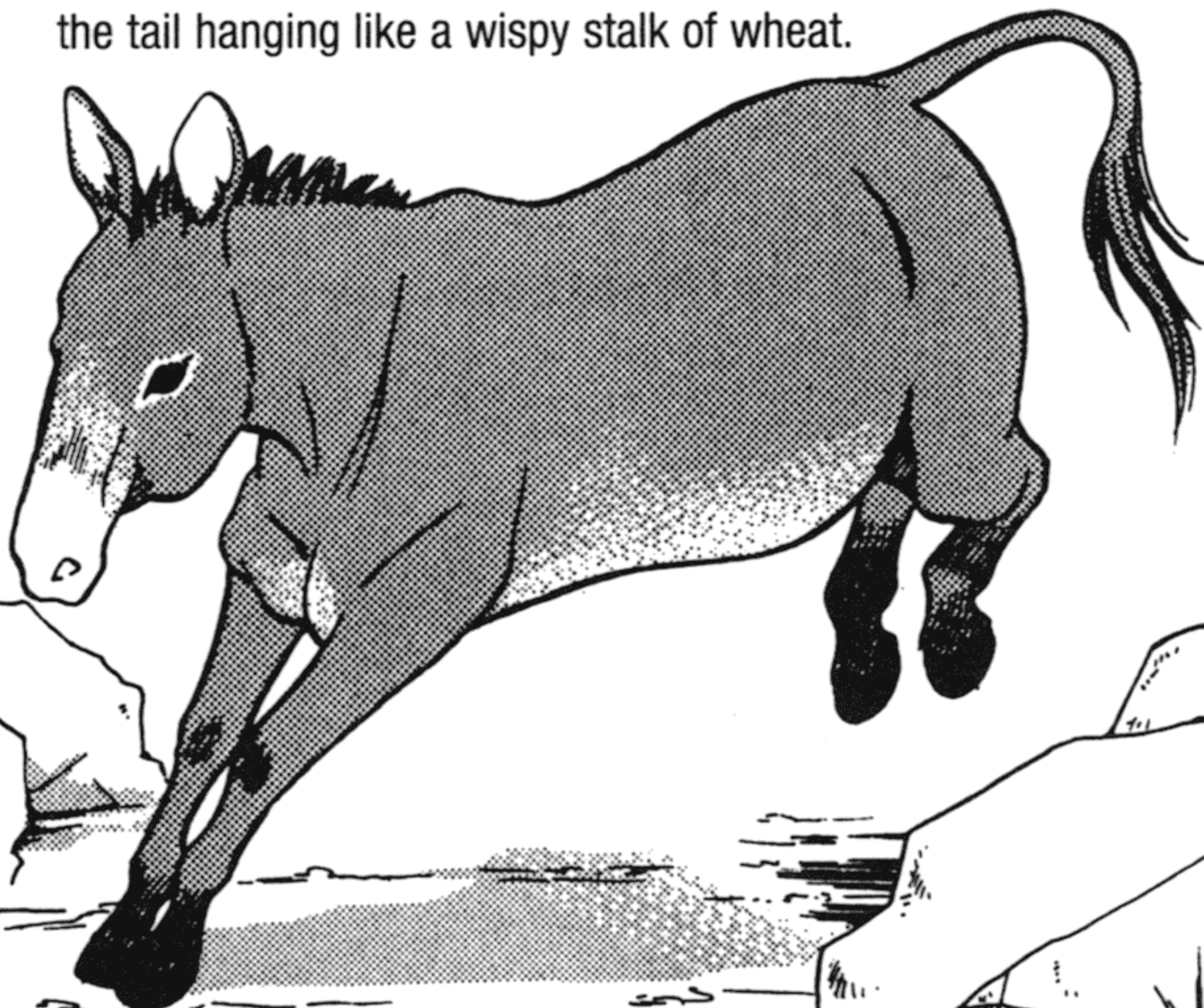
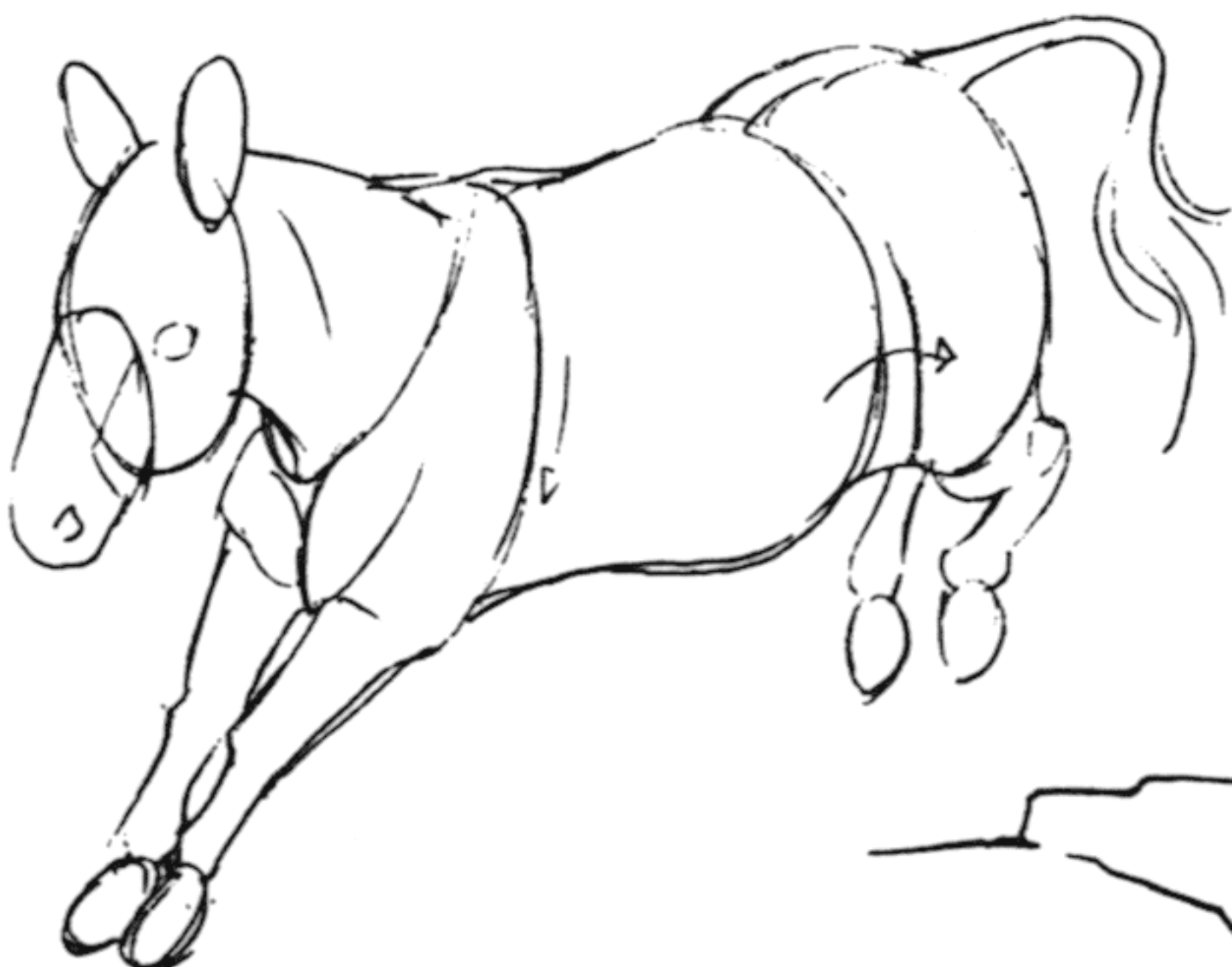


The ears are large, about twice those of a horse. The head is also large, occupying about 1/4 of the figure's total length (head-to-body ratio of 1:4).



The head's length, the trunk's height, and the legs' length are for the most part equivalent.

In this stop-action pose, we see the end of the tail hanging like a wispy stalk of wheat.

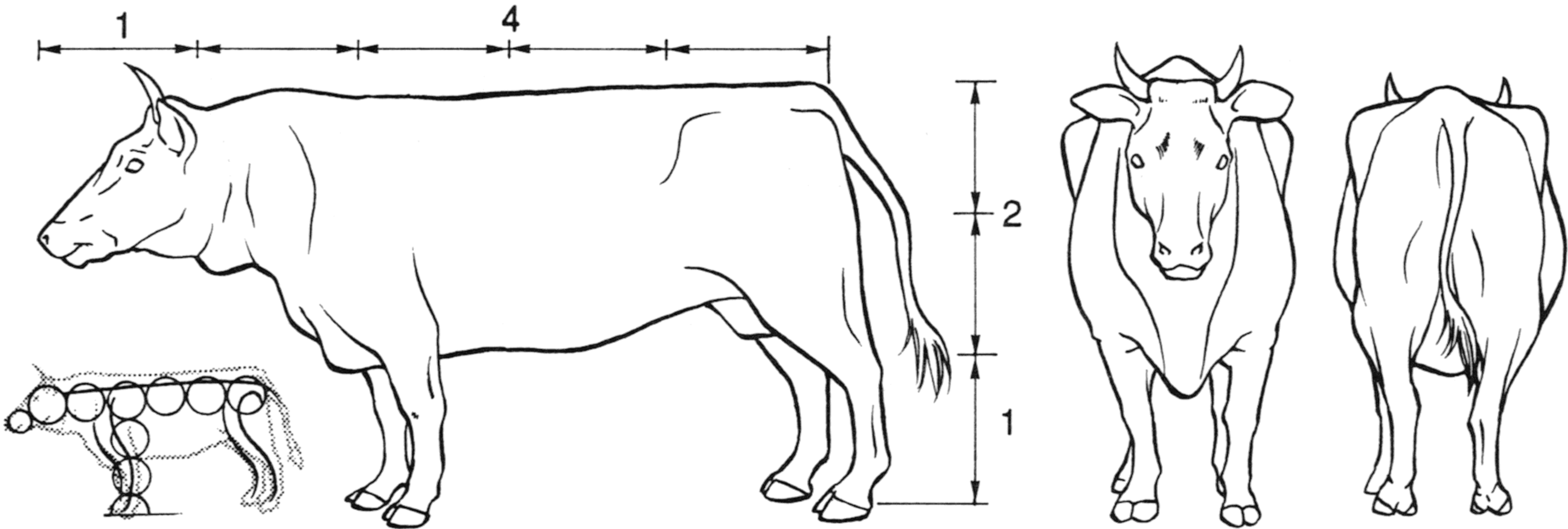




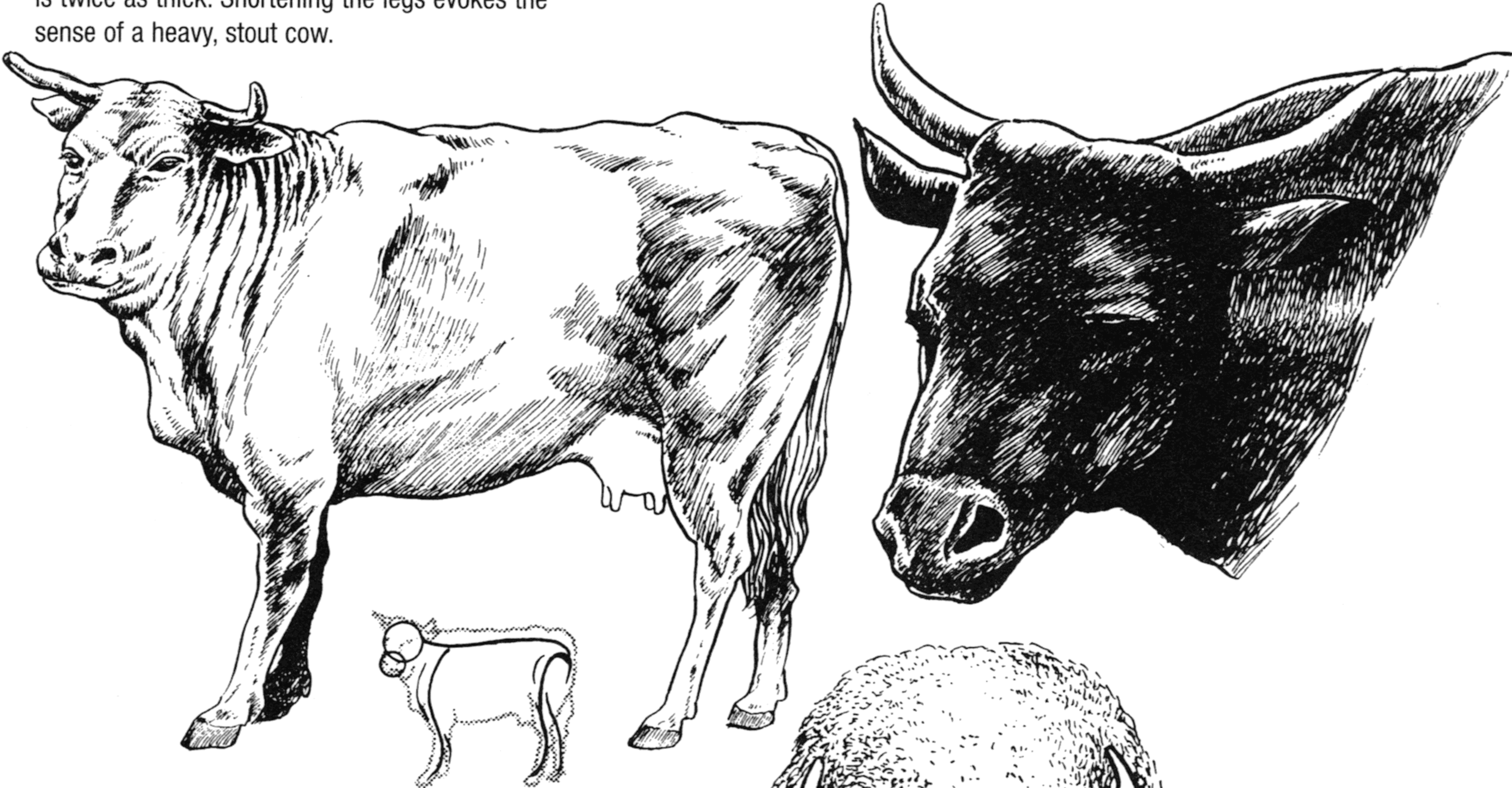
Cattle

Add wrinkles to the neck, the shoulder, and the legs to project a sense of sturdiness.

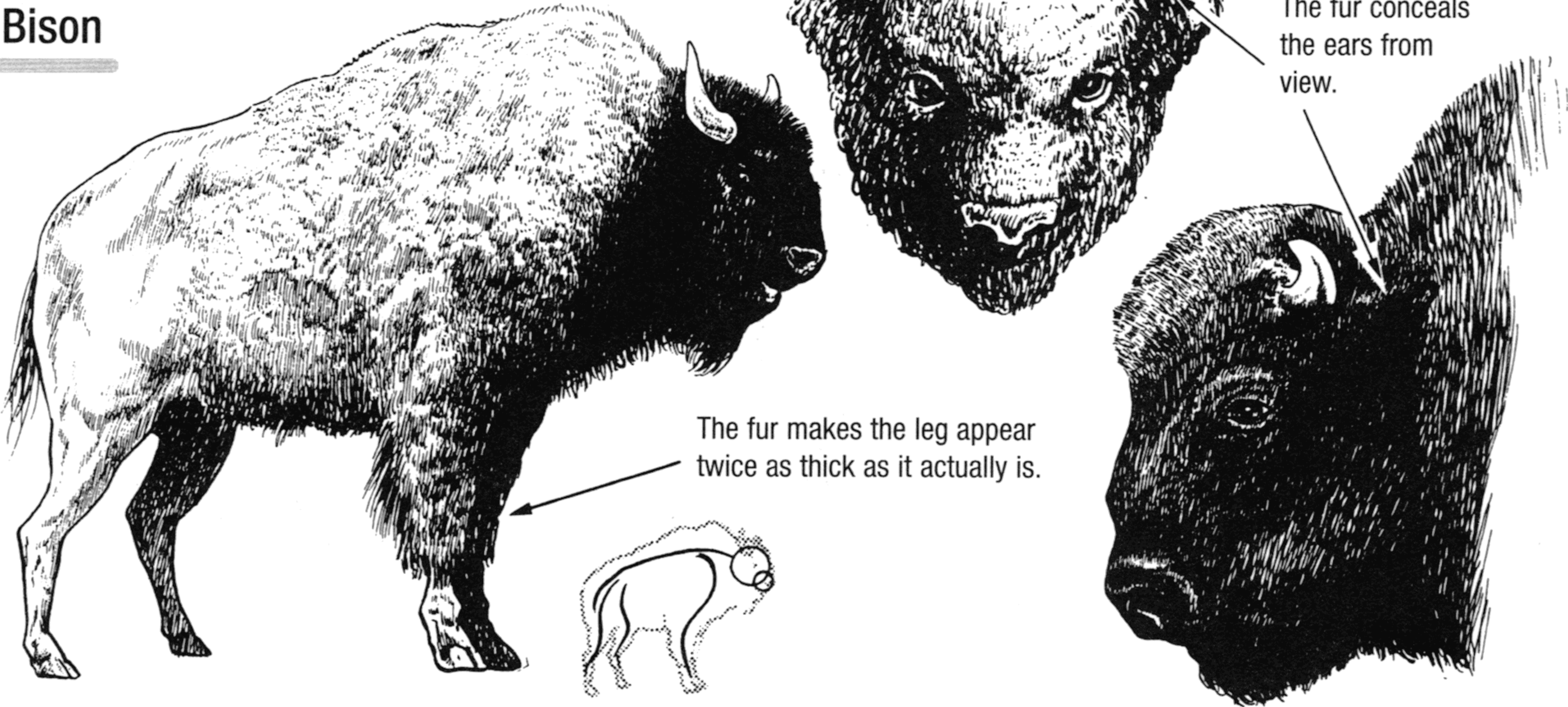
The length of each ear jutting out to the side is the same as the forehead's width.



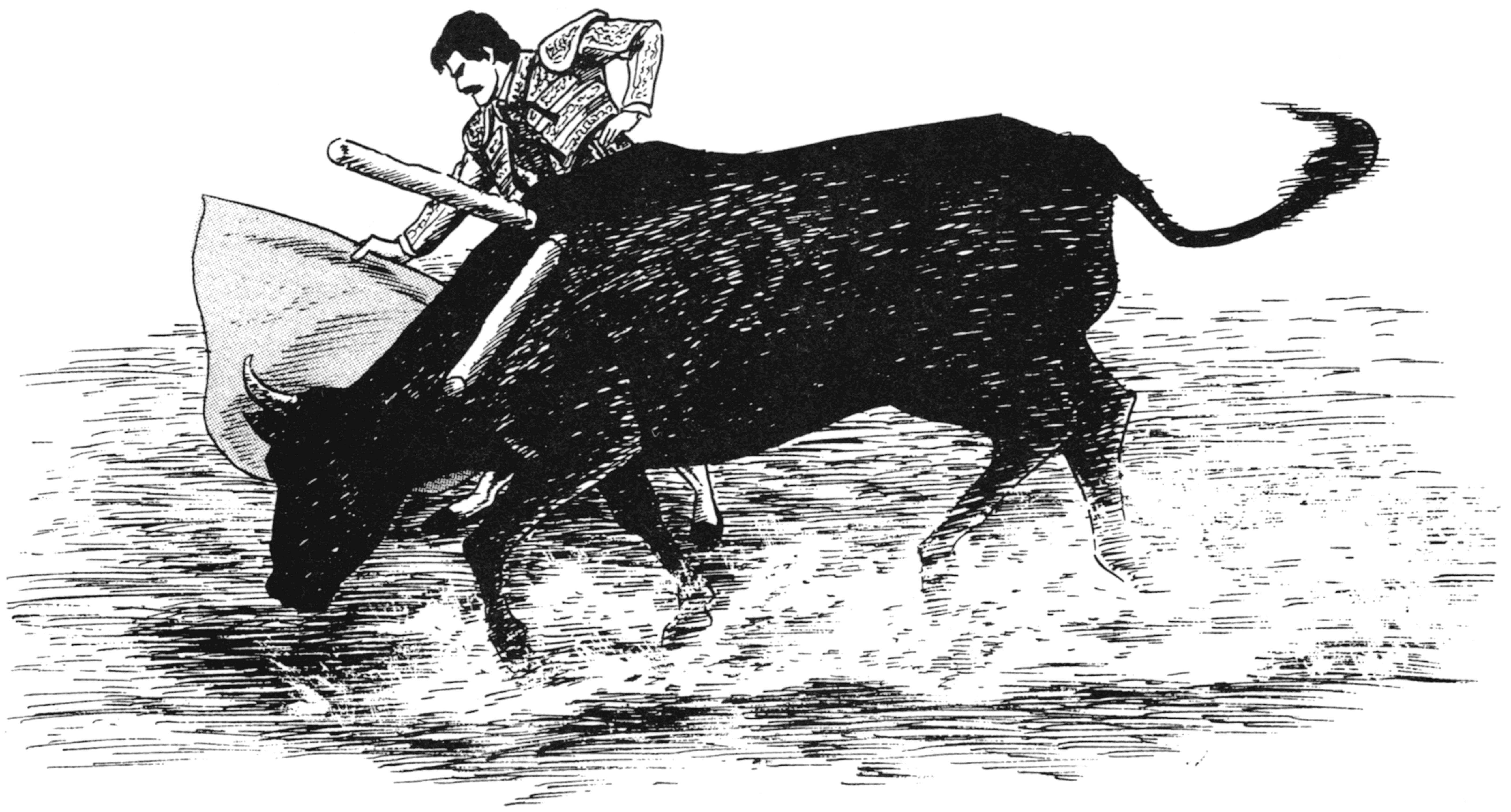
The trunk is four times the length of the head, and is twice as thick. Shortening the legs evokes the sense of a heavy, stout cow.



Bison





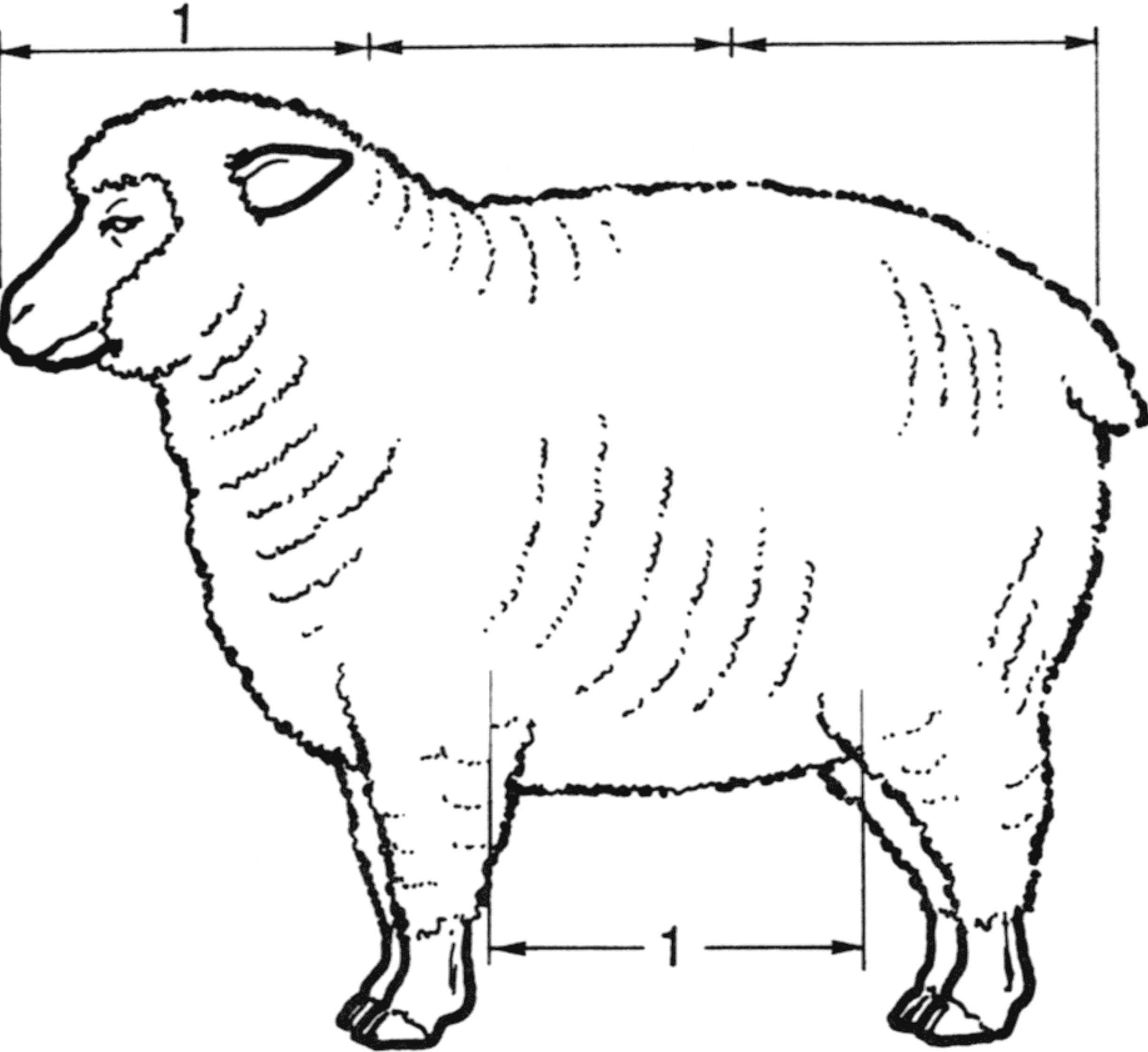




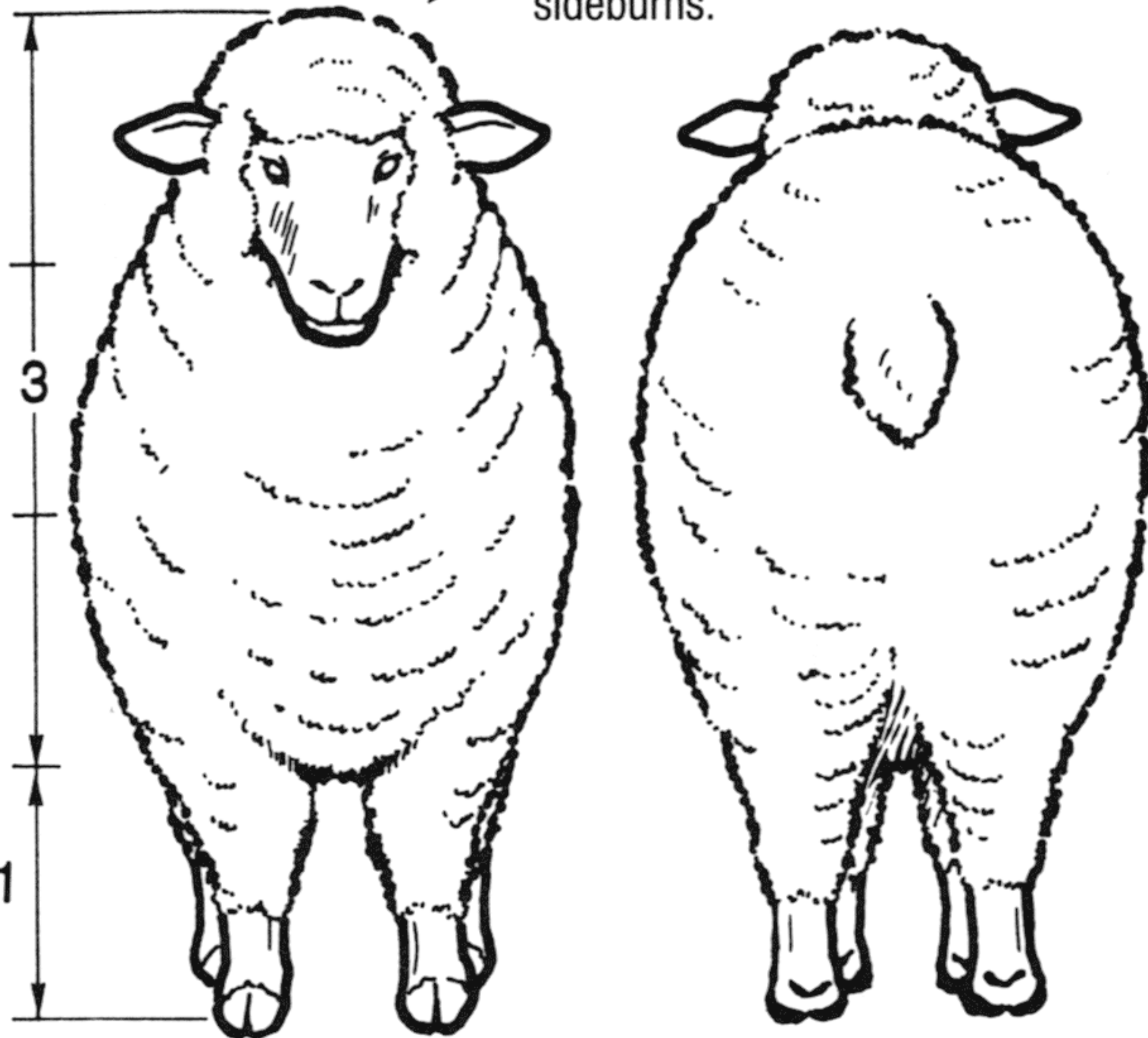
Sheep

Since sheep are covered in soft wool, I recommend drawing the figure with gently rounded surfaces. The trick here is to keep the distance between the eyes and the nose on the long side to suggest a flattish face.

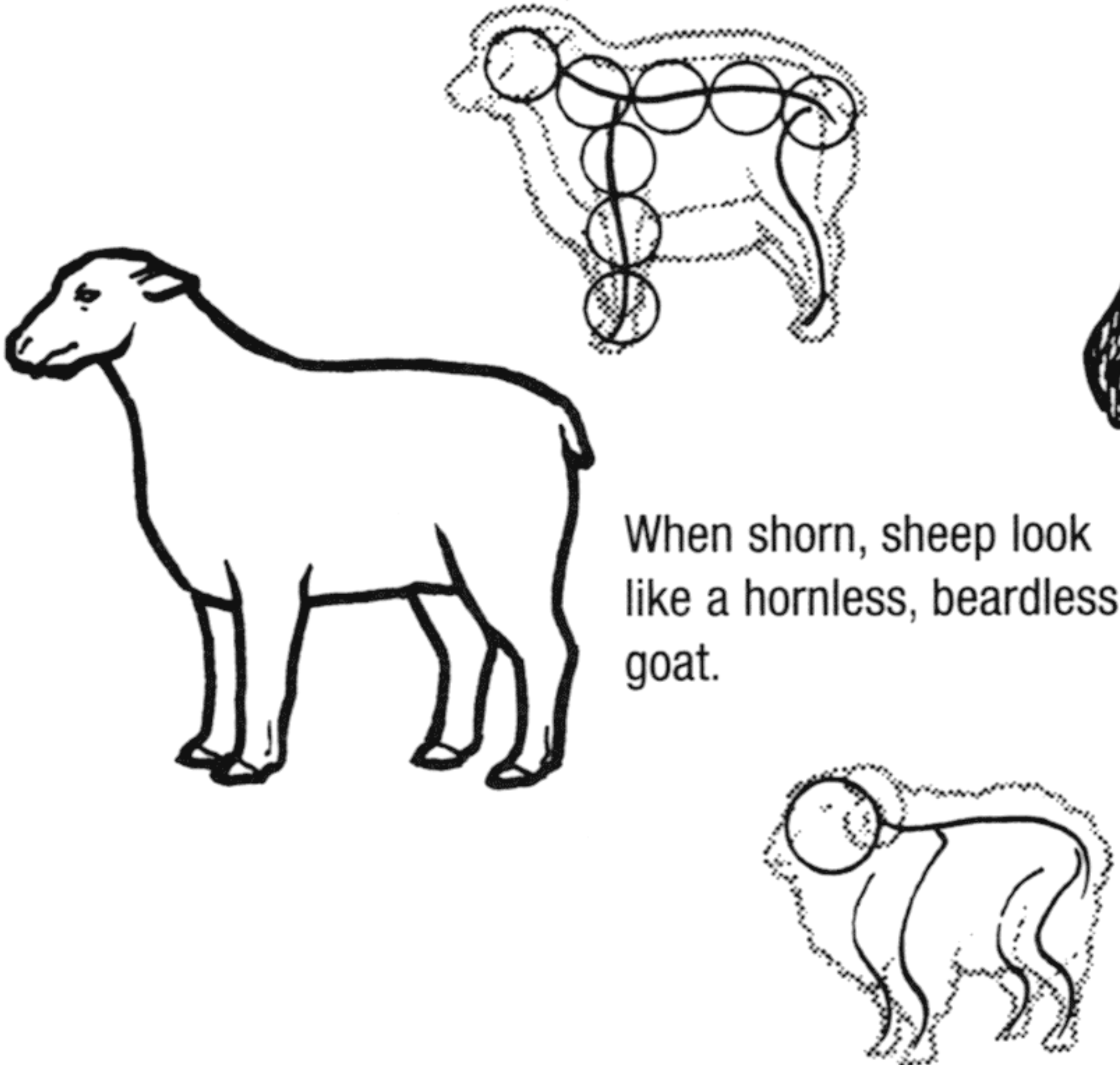
From the front, the face appears an inverted triangle with a round "Bob" style haircut and sideburns.



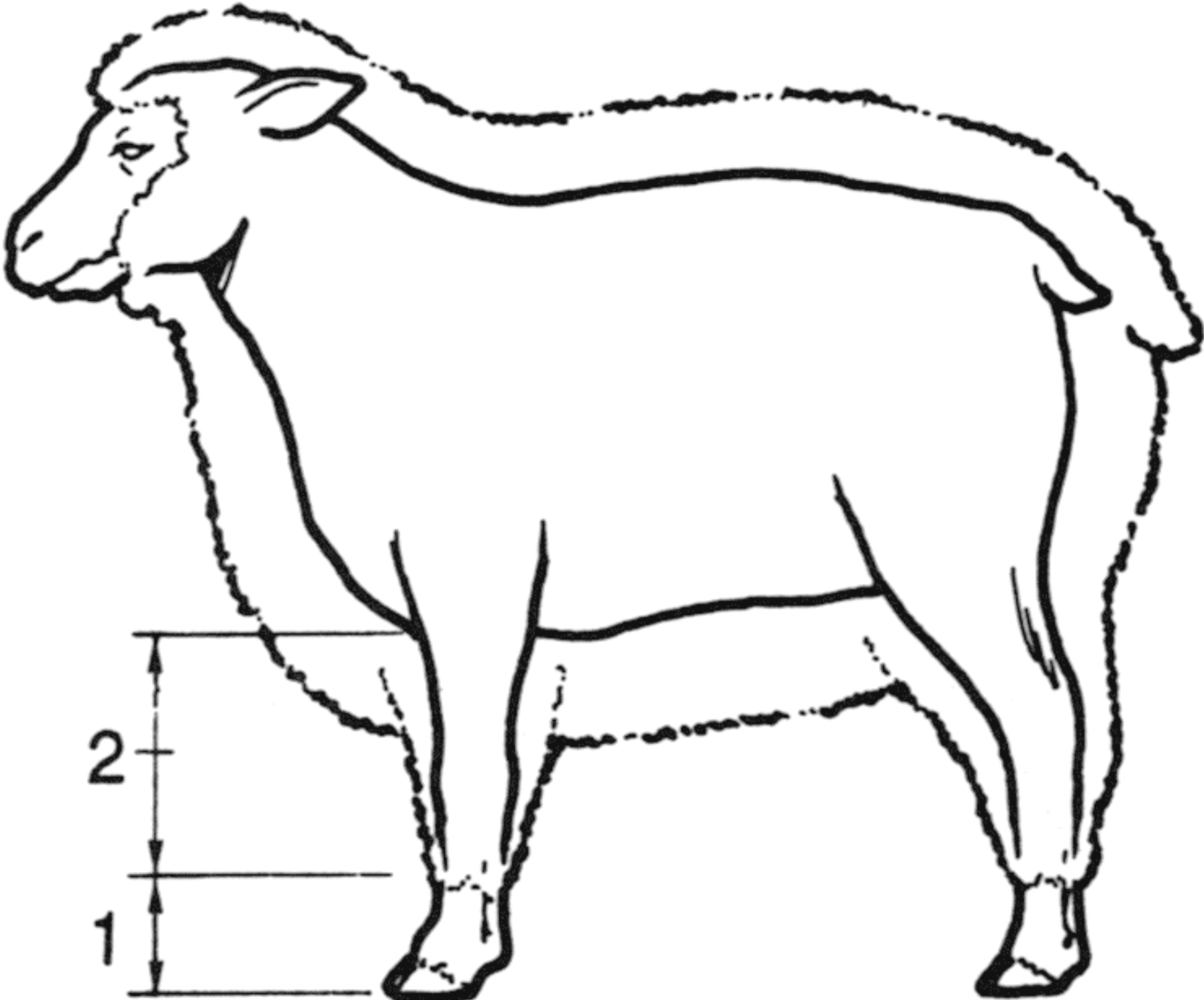
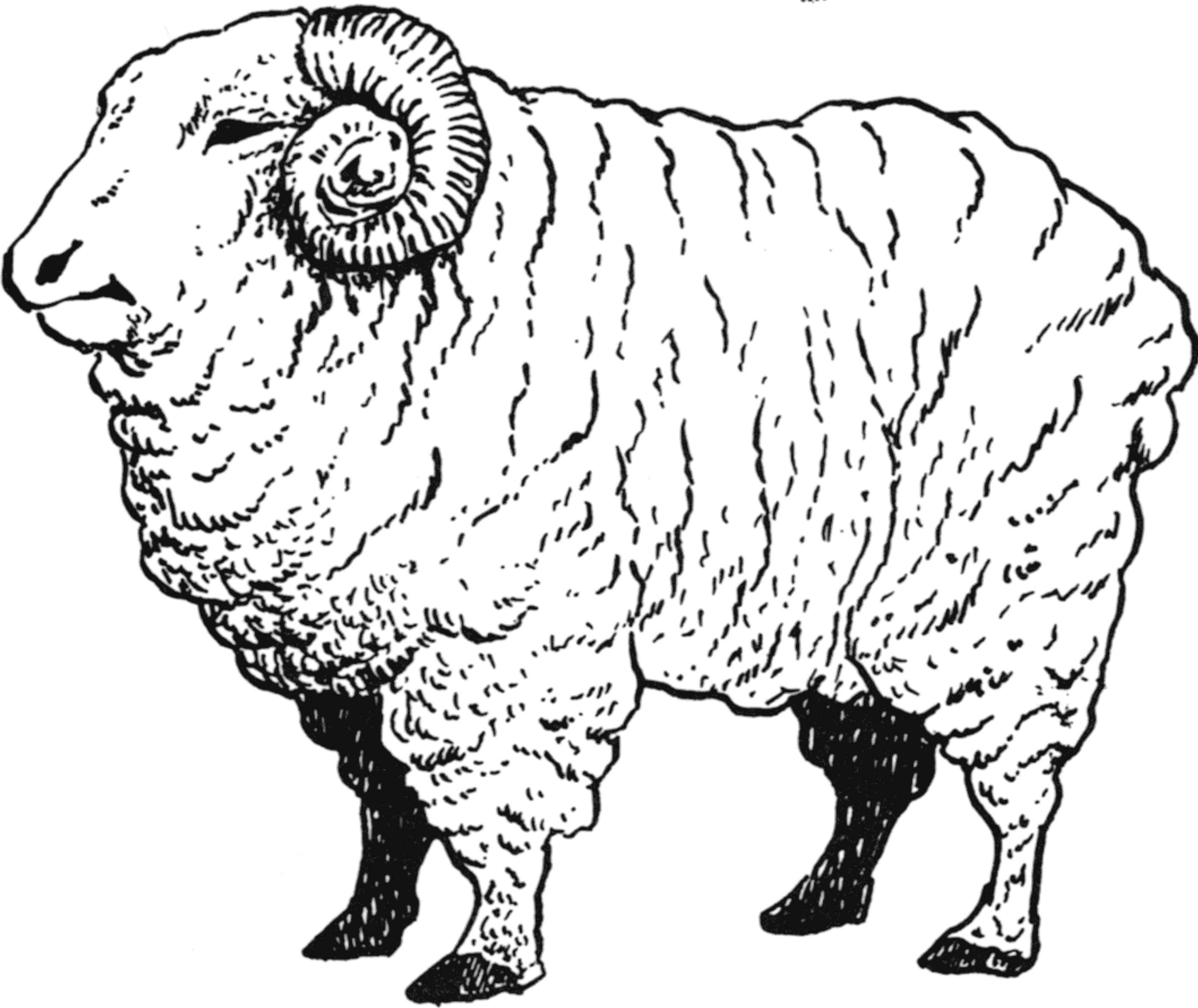
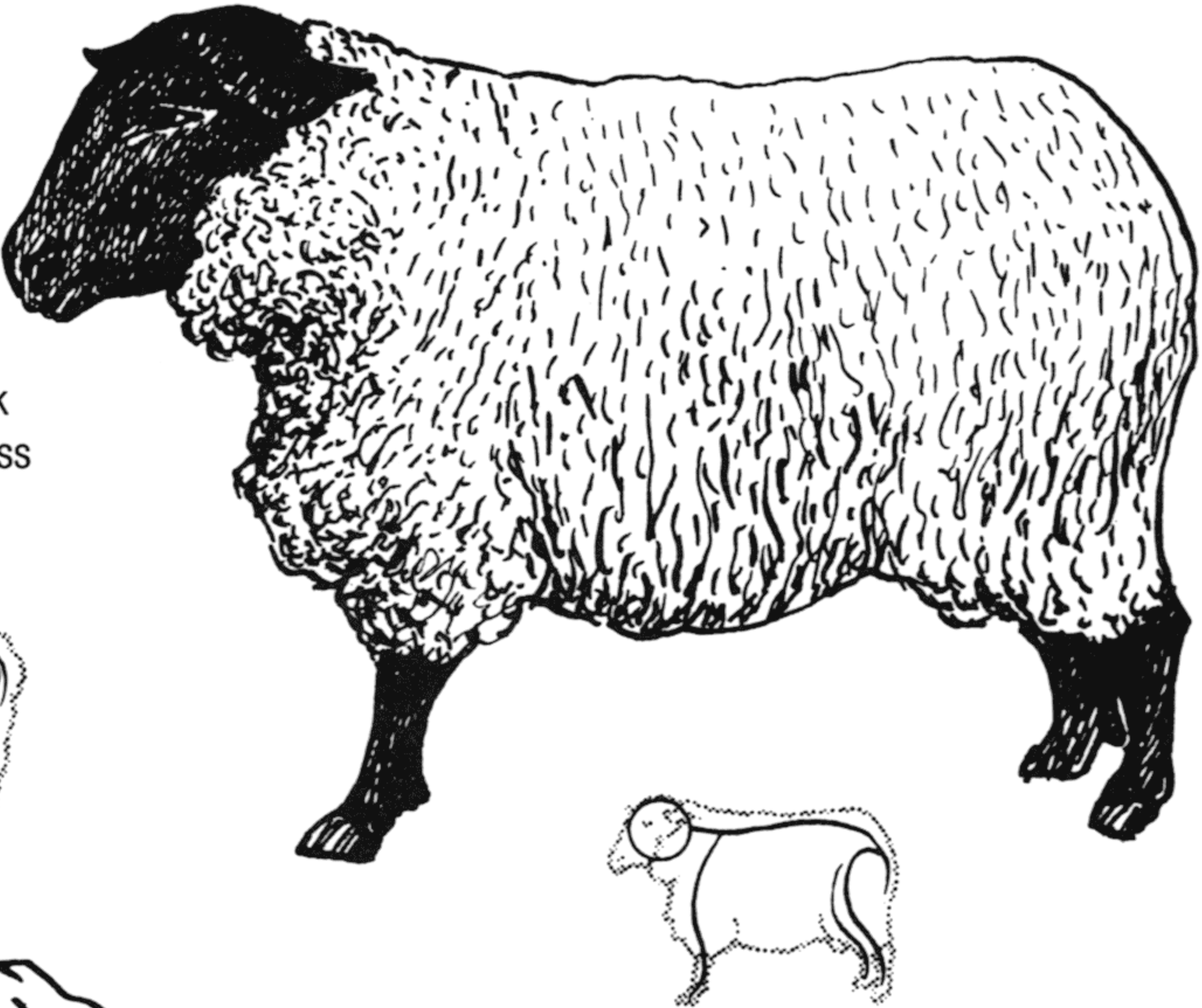
The front and back legs should be spaced about one head apart.



The wool covering the figure makes the legs appear short—about 1/4 of the total height.



When shorn, sheep look like a hornless, beardless goat.



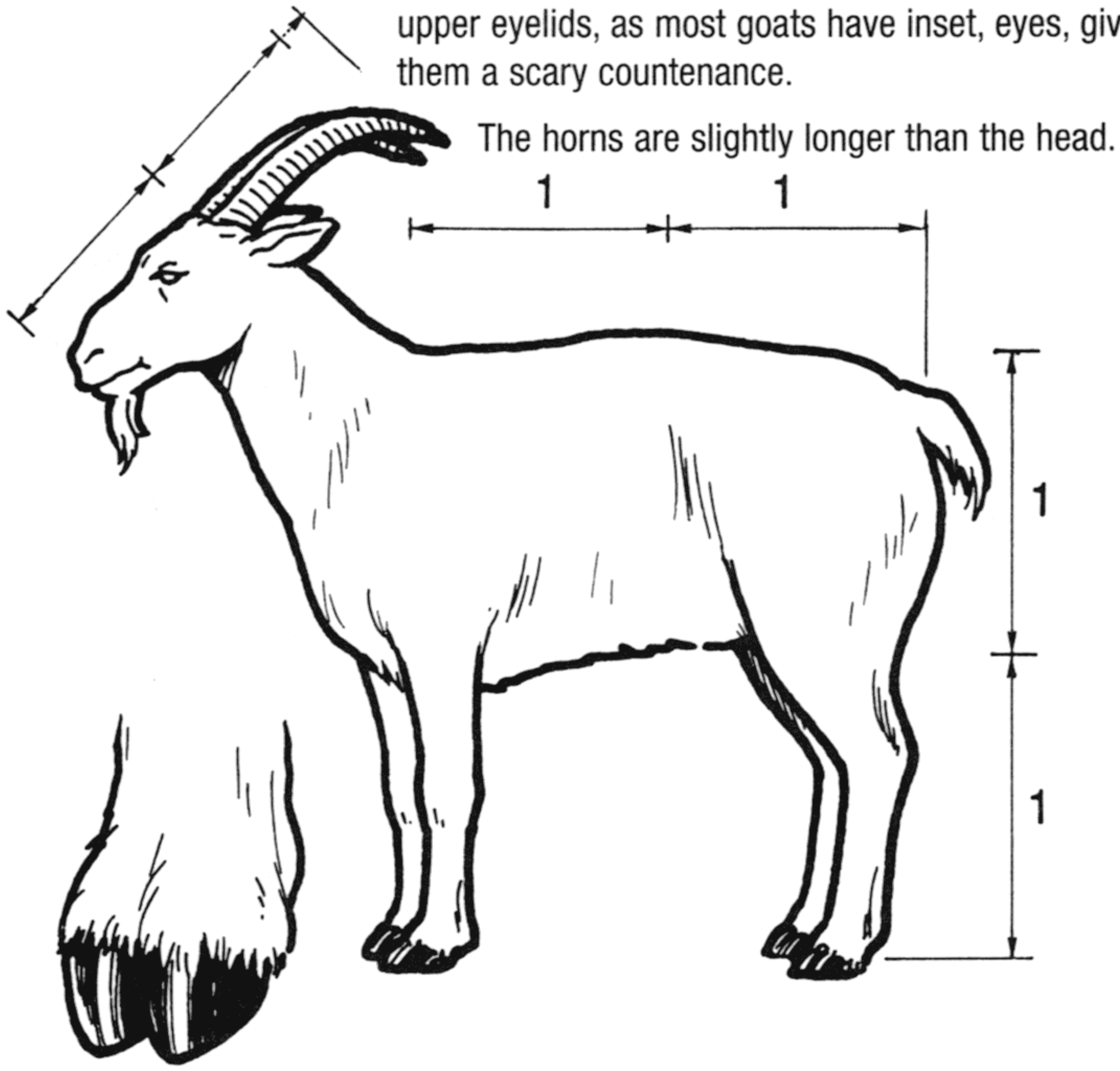
1/3 of the leg is covered in wool.



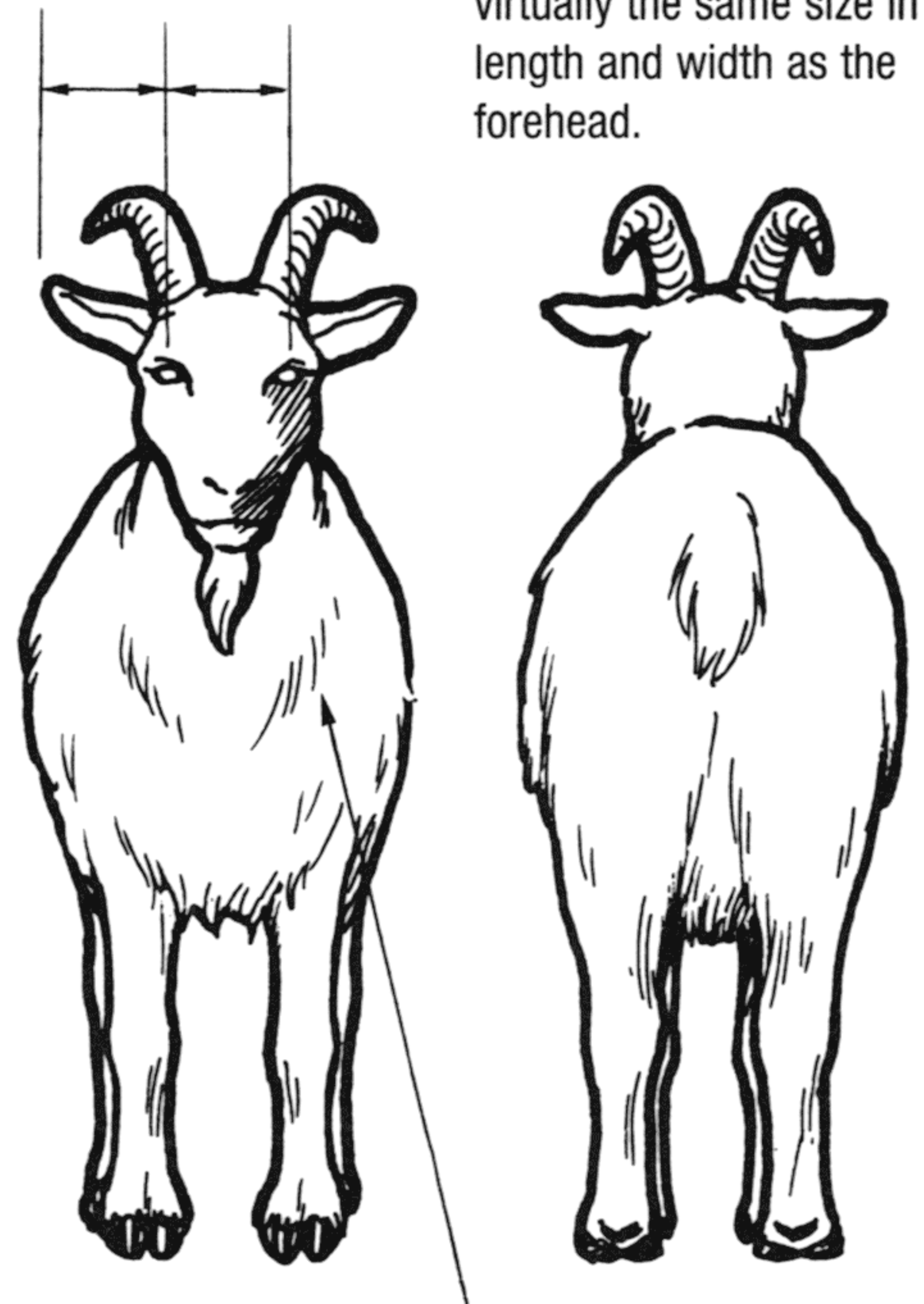
# Goats

Despite being domestic animals tend to come across as rather untamed. Give their legs knobby joints, and heavy upper eyelids, as most goats have inset, eyes, giving them a scary countenance.

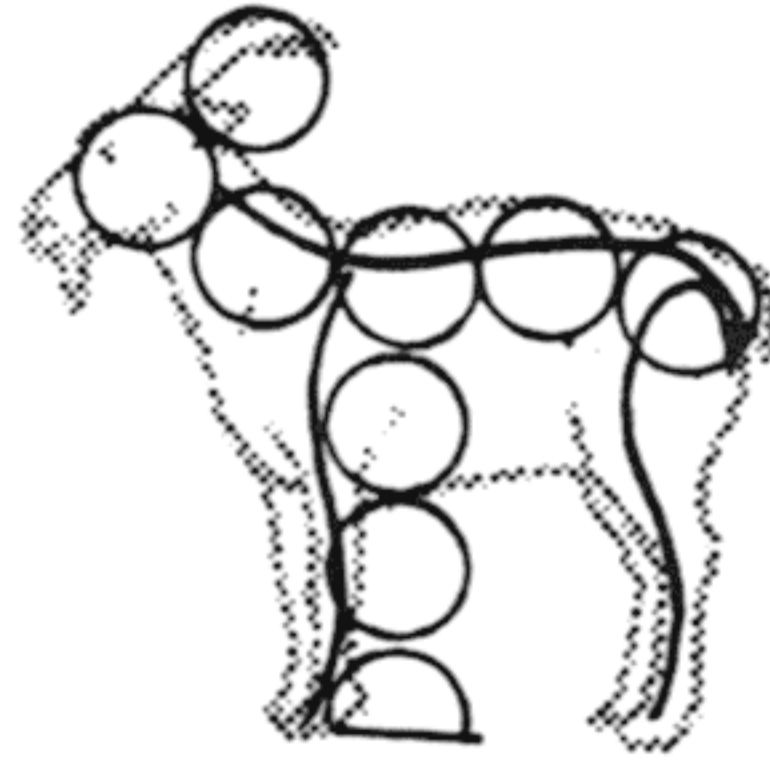
The projecting ears are virtually the same size in length and width as the forehead.



The horns are slightly longer than the head.



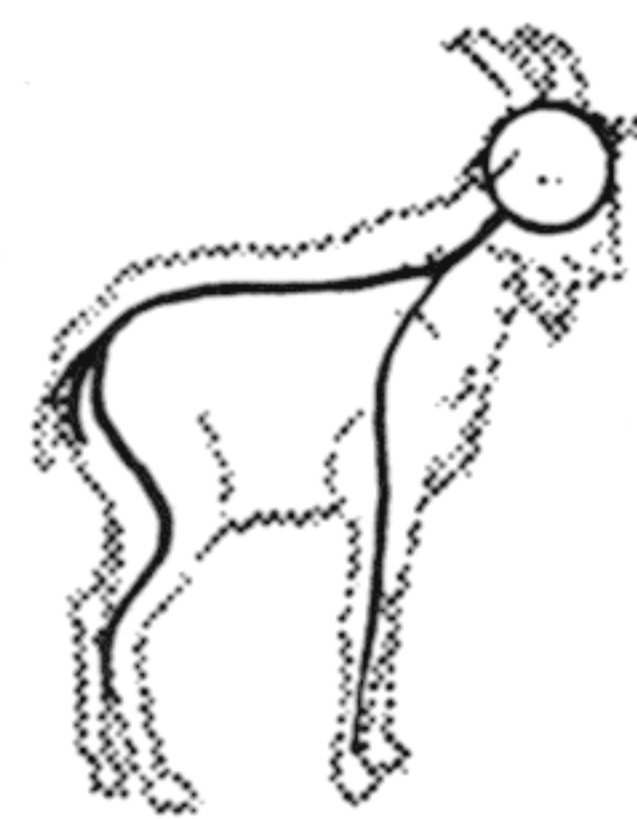
Define the base of the neck by drawing hair in the form of diagonal strokes.



The width of the horn's base is commonly the same as that of an eye.



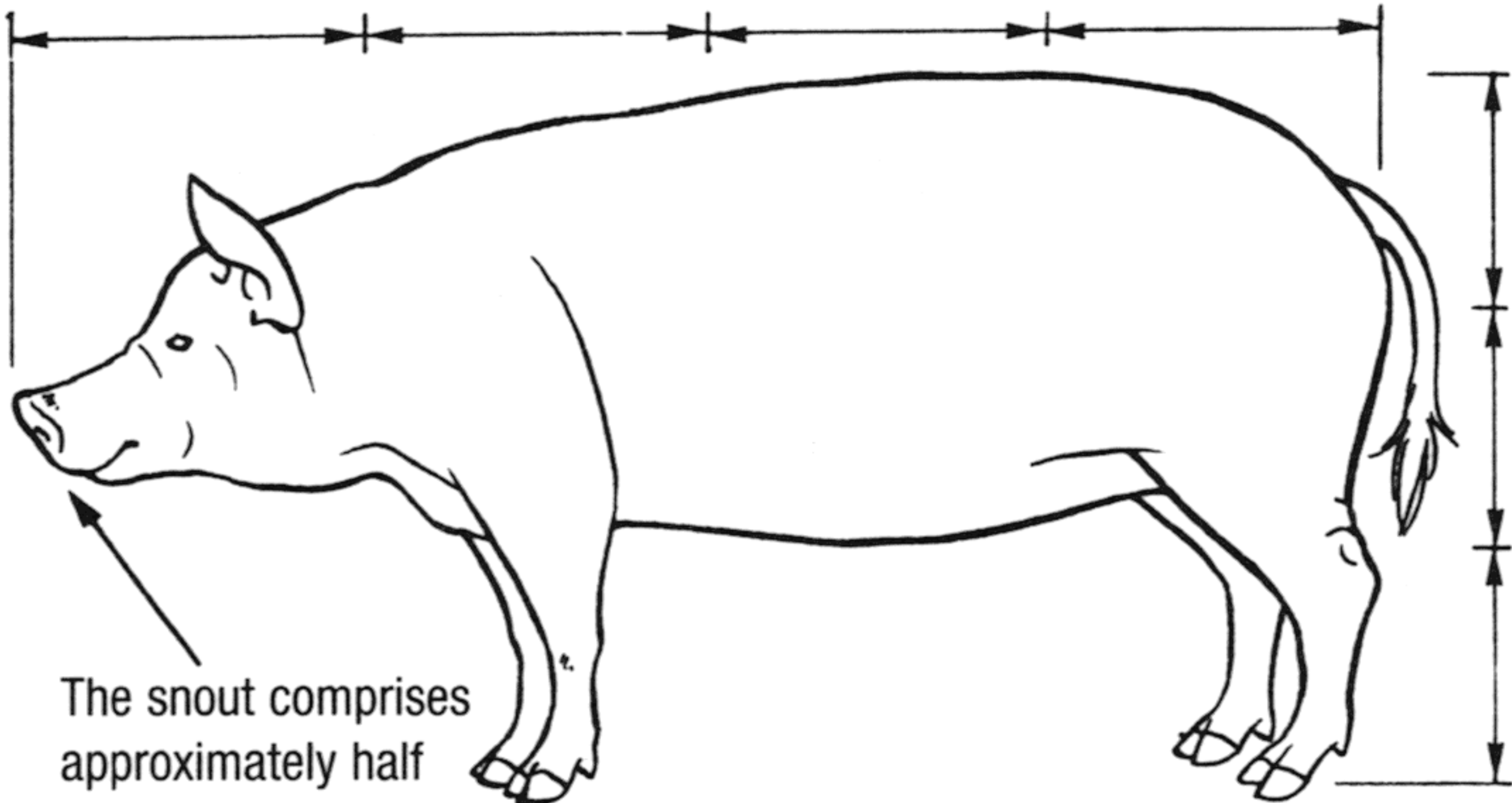
Adding black imbues the horn with the sense of a hard texture.



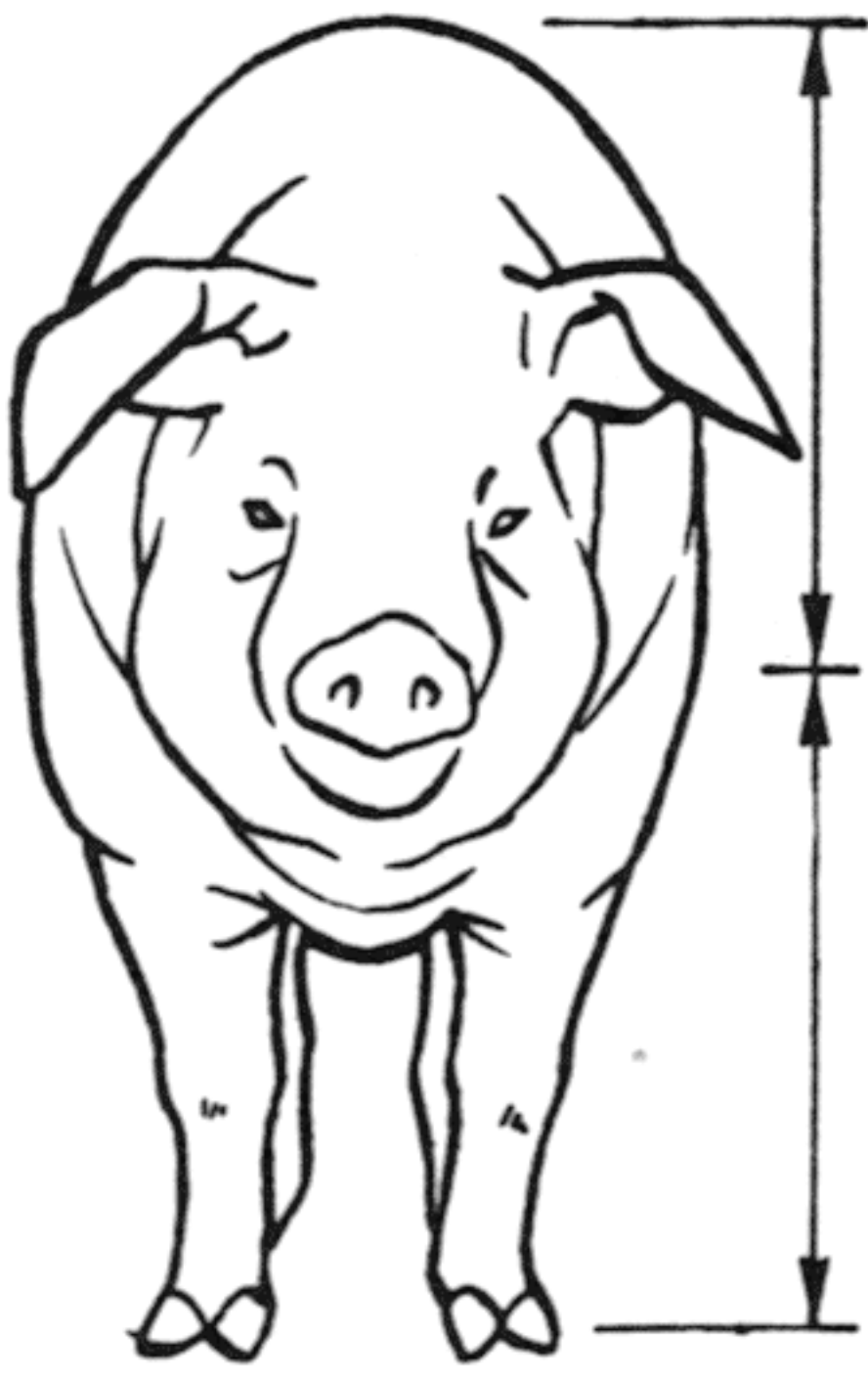
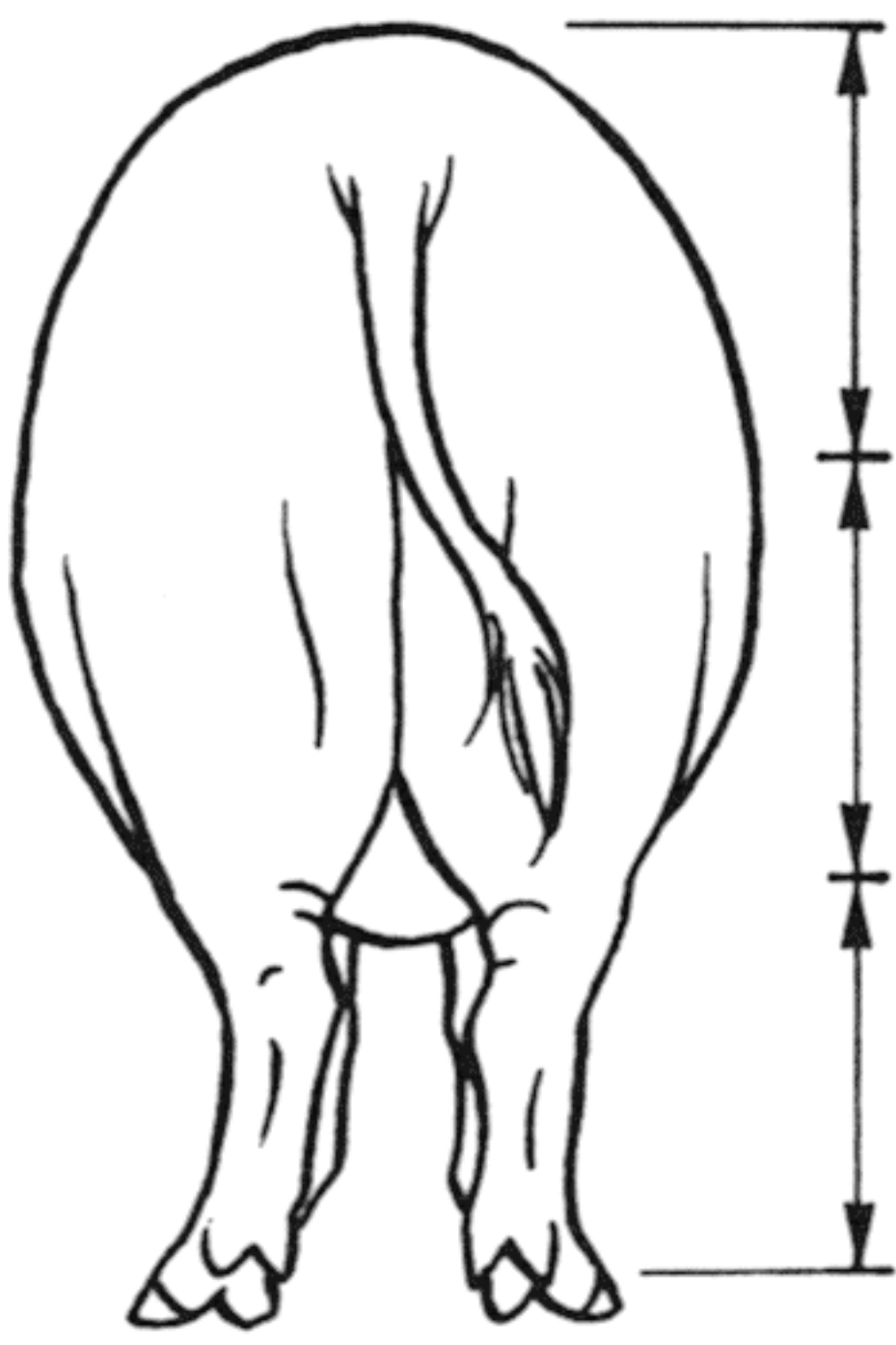


Pigs

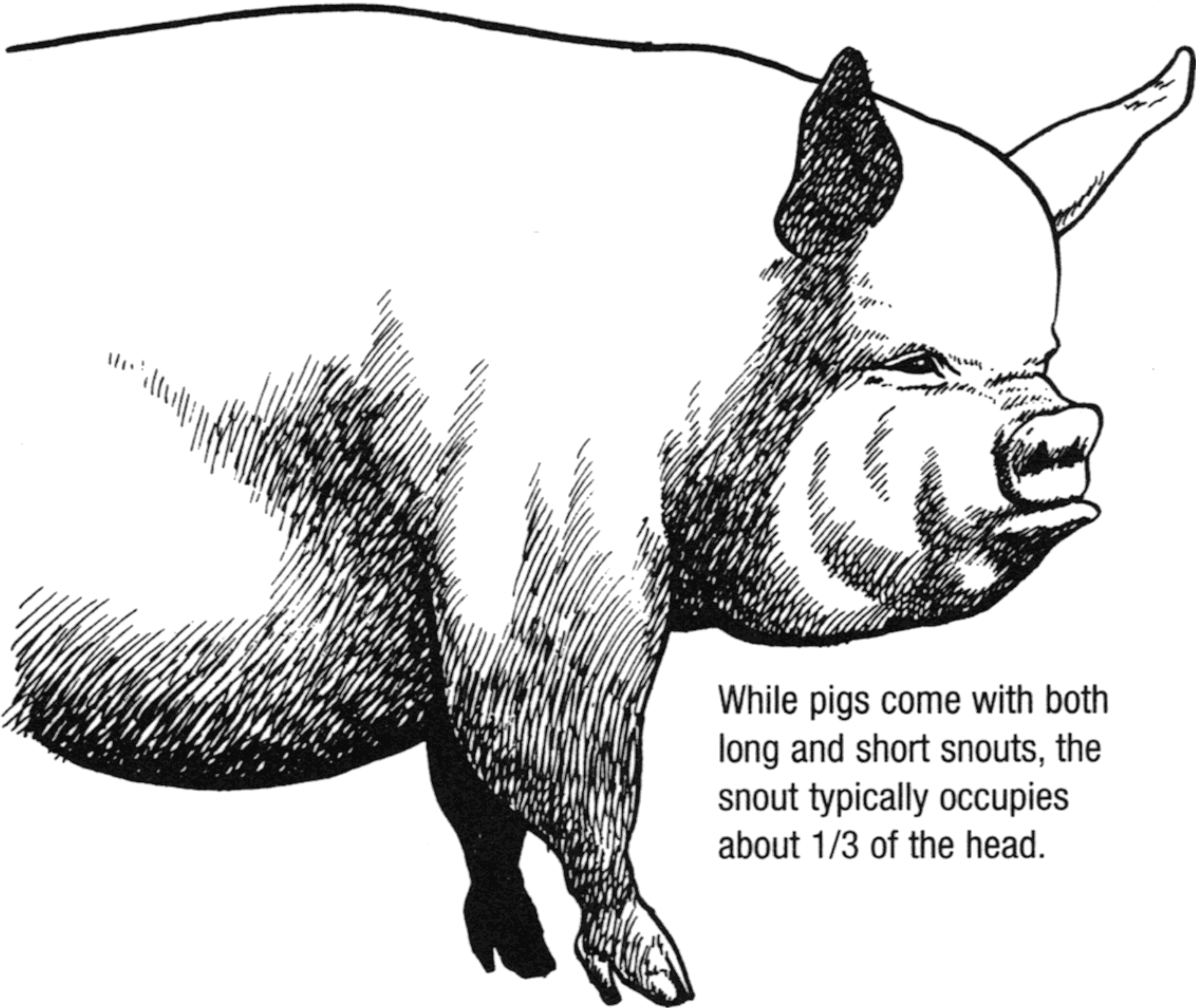
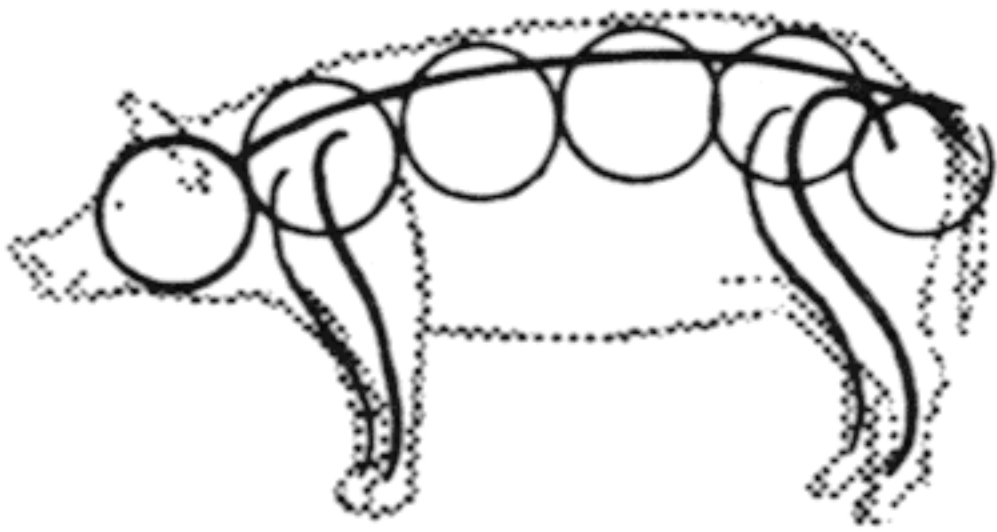
There are pigs with long head and pigs with wide heads. For both, I recommend rounding the head, using an elliptical shape.



The snout comprises approximately half the head.



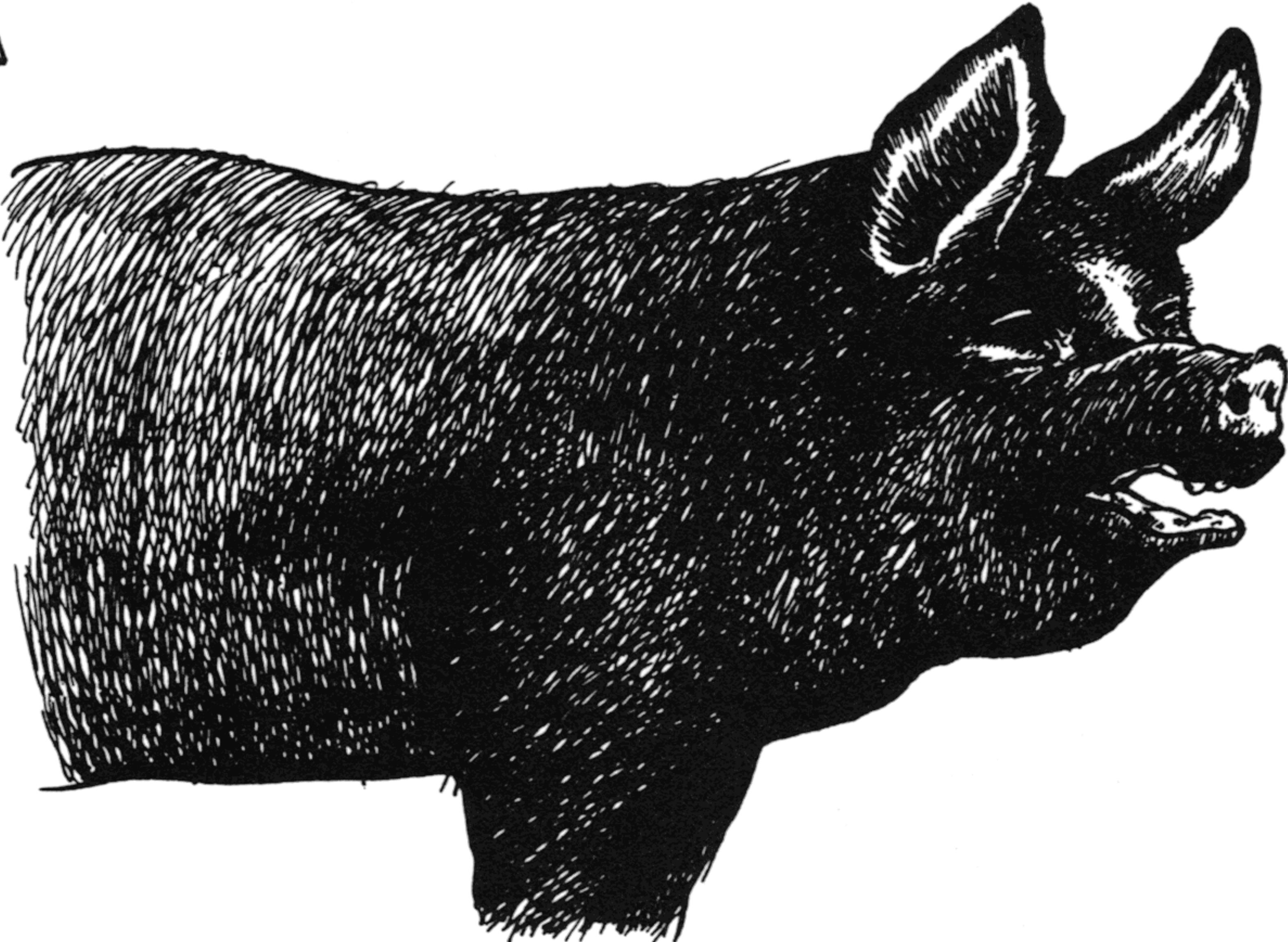
When facing forward, the nose is positioned exactly at the midway point of the pig's total height.



While pigs come with both long and short snouts, the snout typically occupies about 1/3 of the head.

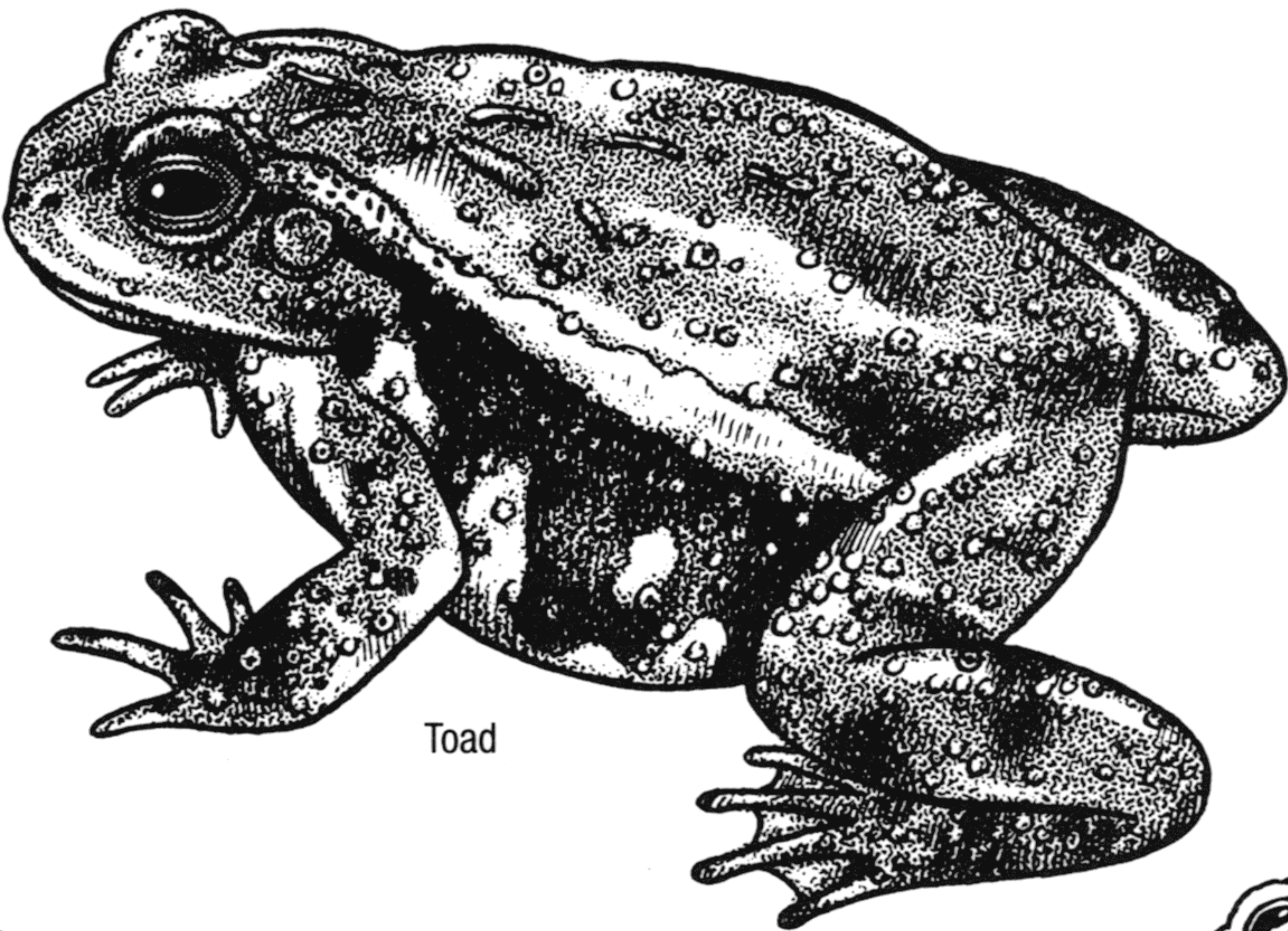
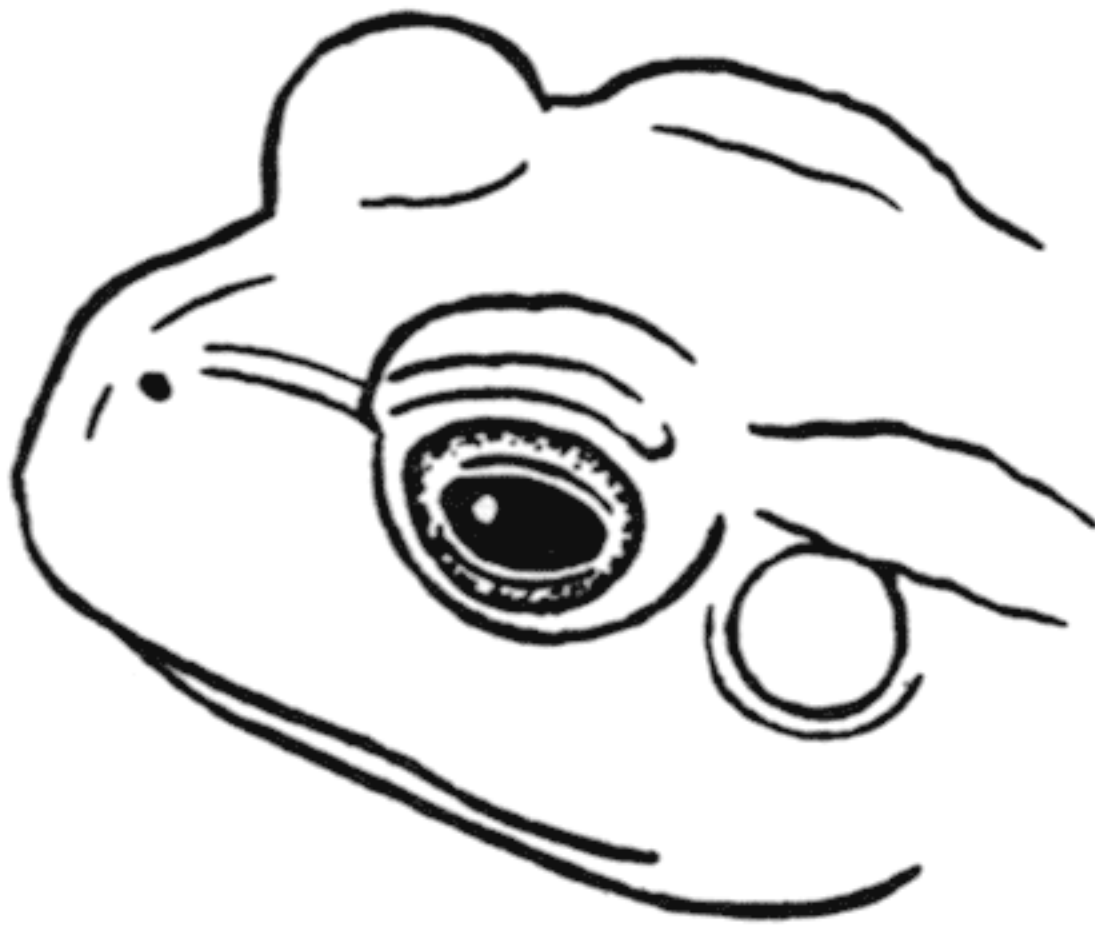


The ear exhibits a wide range of expressive motion.

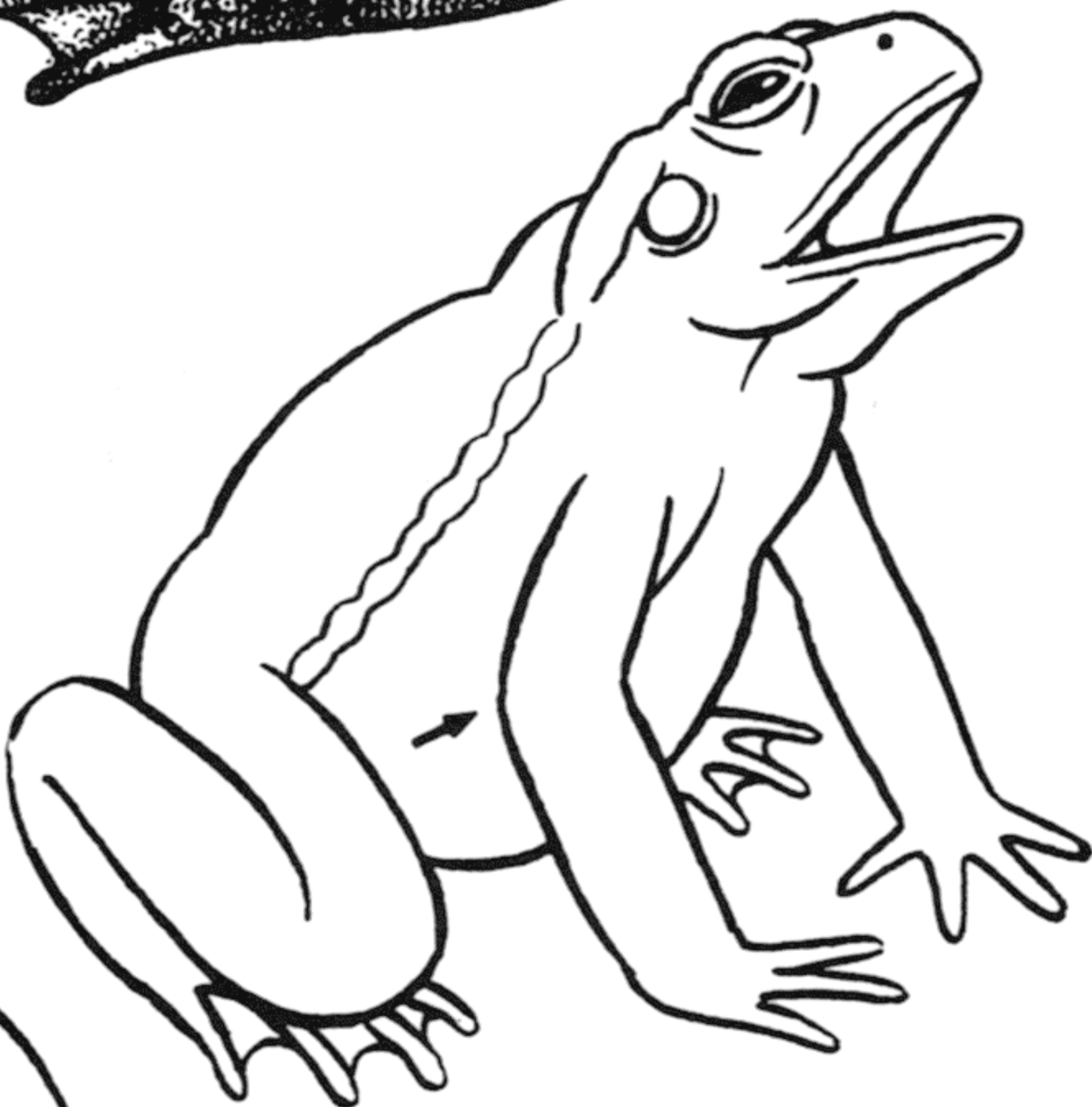
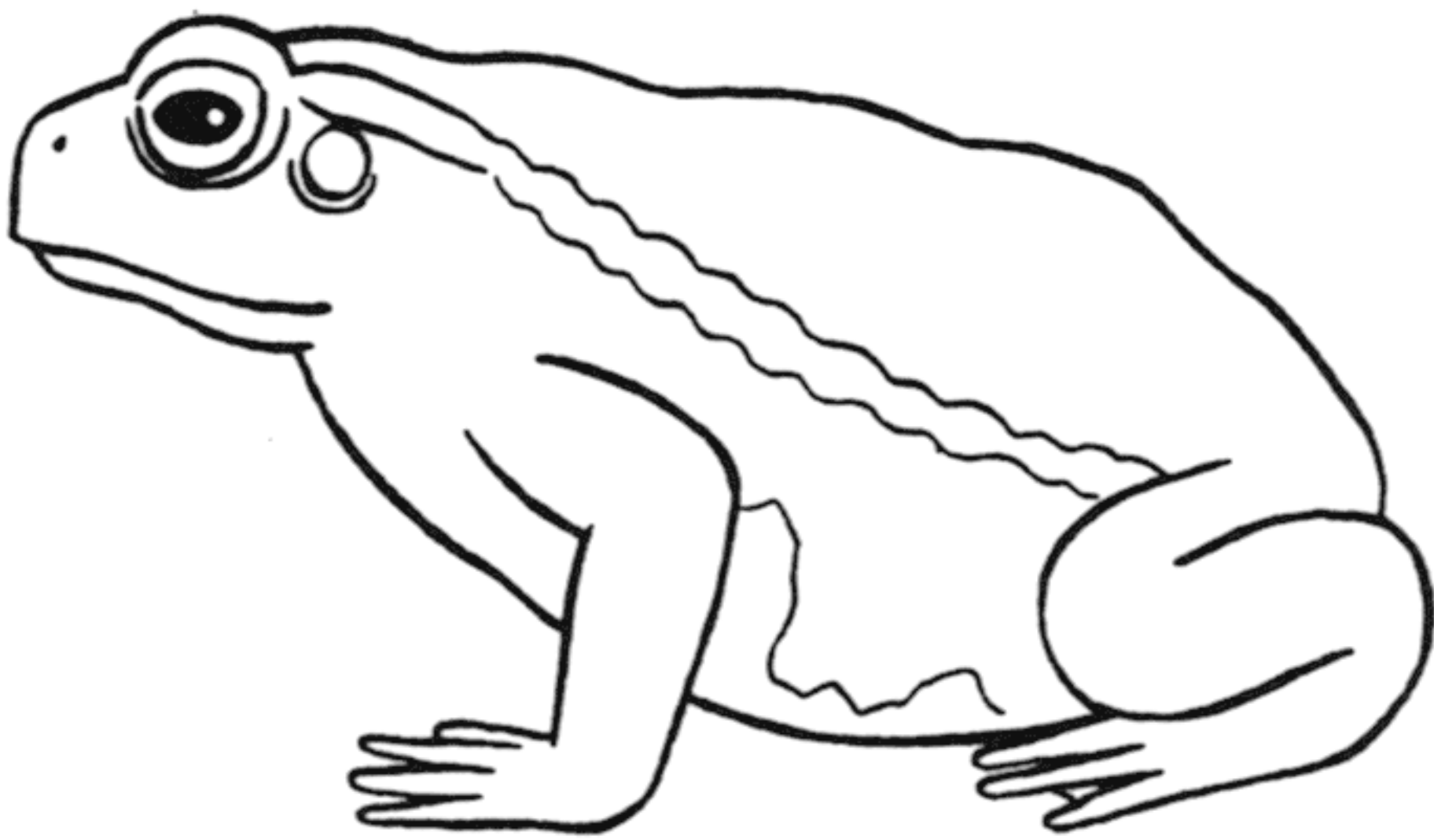




Drawing your frogs with their elbows pointed outward produces that distinctive supercilious air that frogs seem to have.



Toad



Foreleg

The toes of the hind feet have webbing.



The elbows should stick out to the sides.

Appearance when Croaking



Black-spotted Pond Frog



Japanese Tree Frog



Frog with cheeks inflated



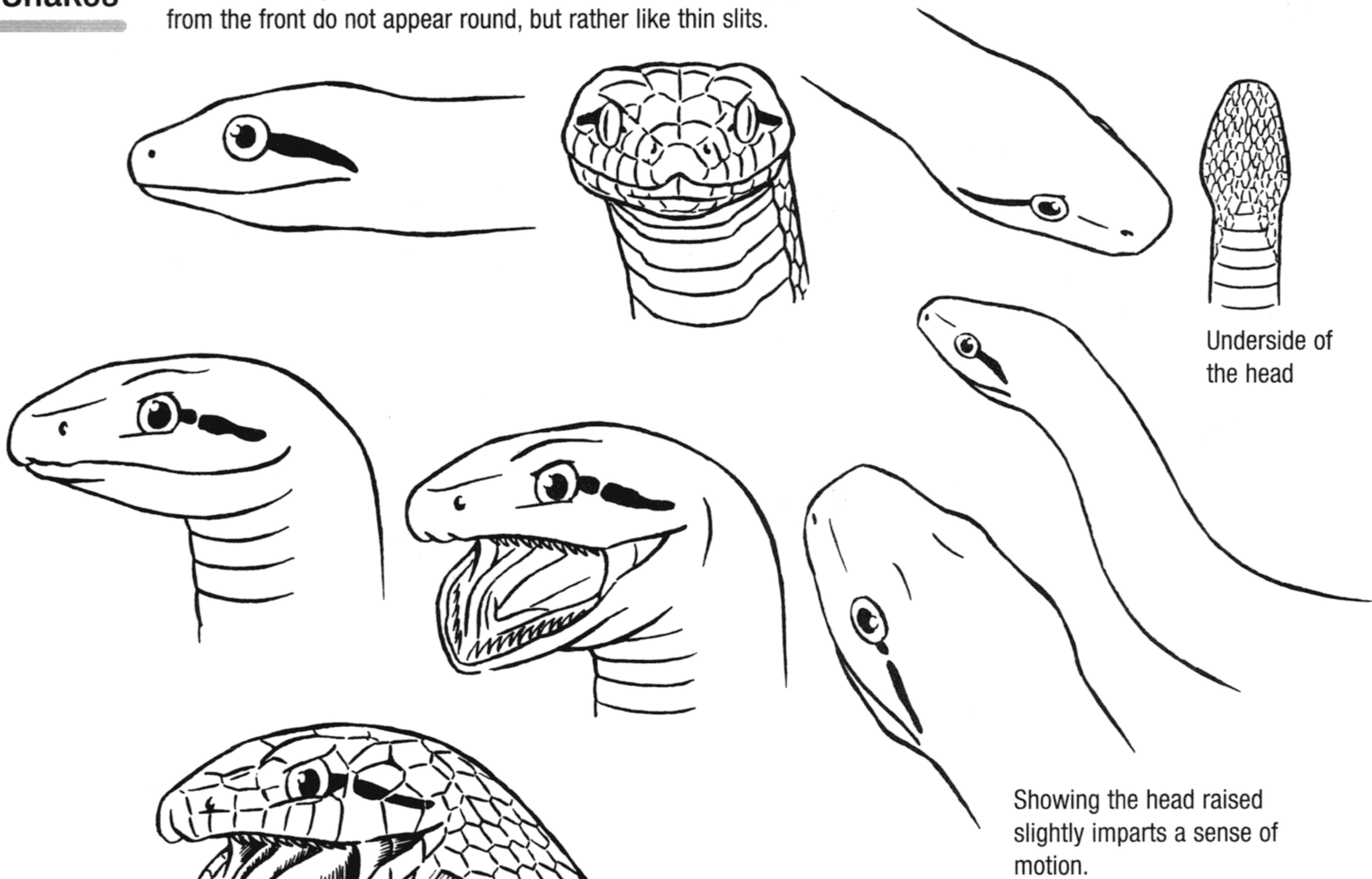
Frog with throat inflated





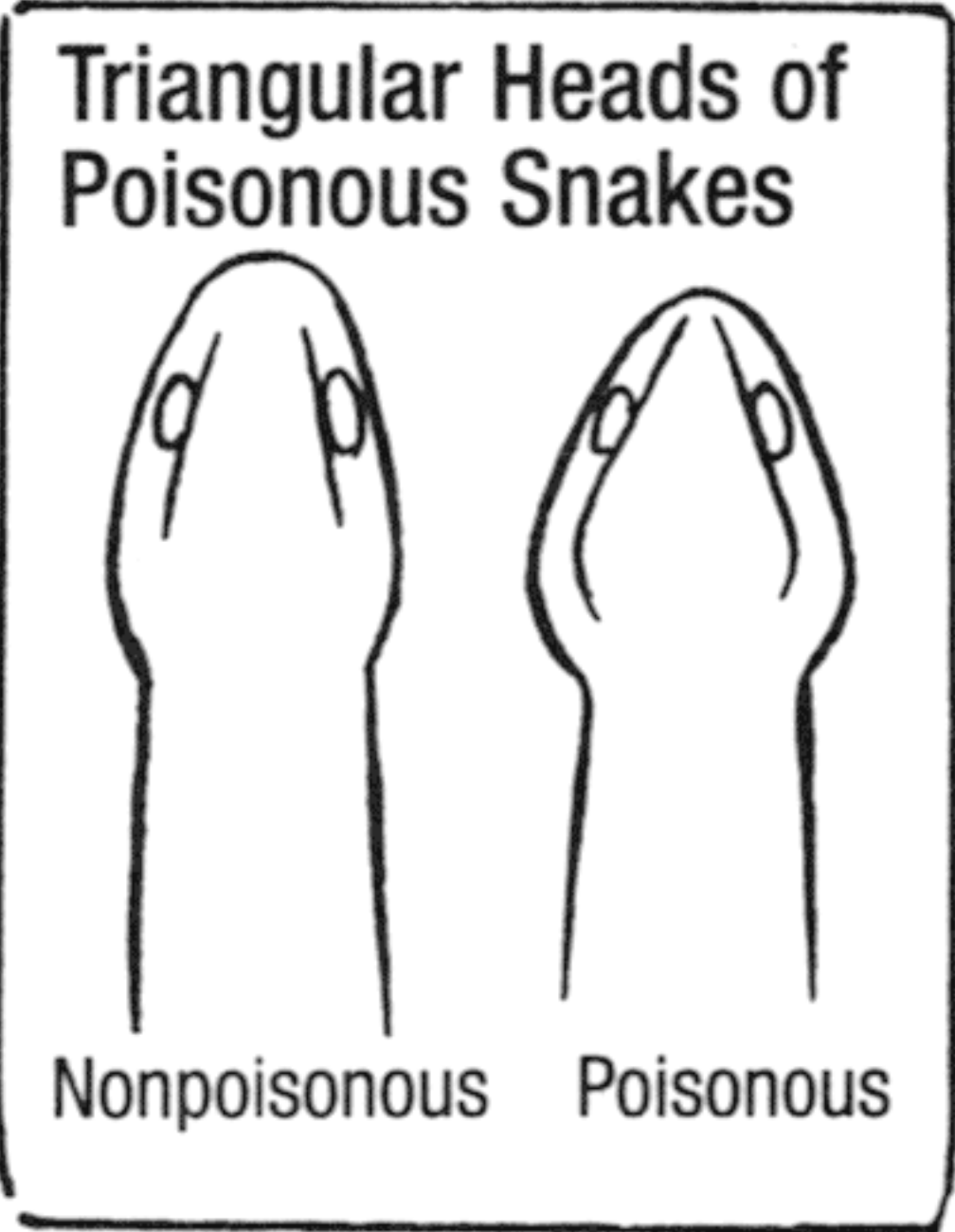
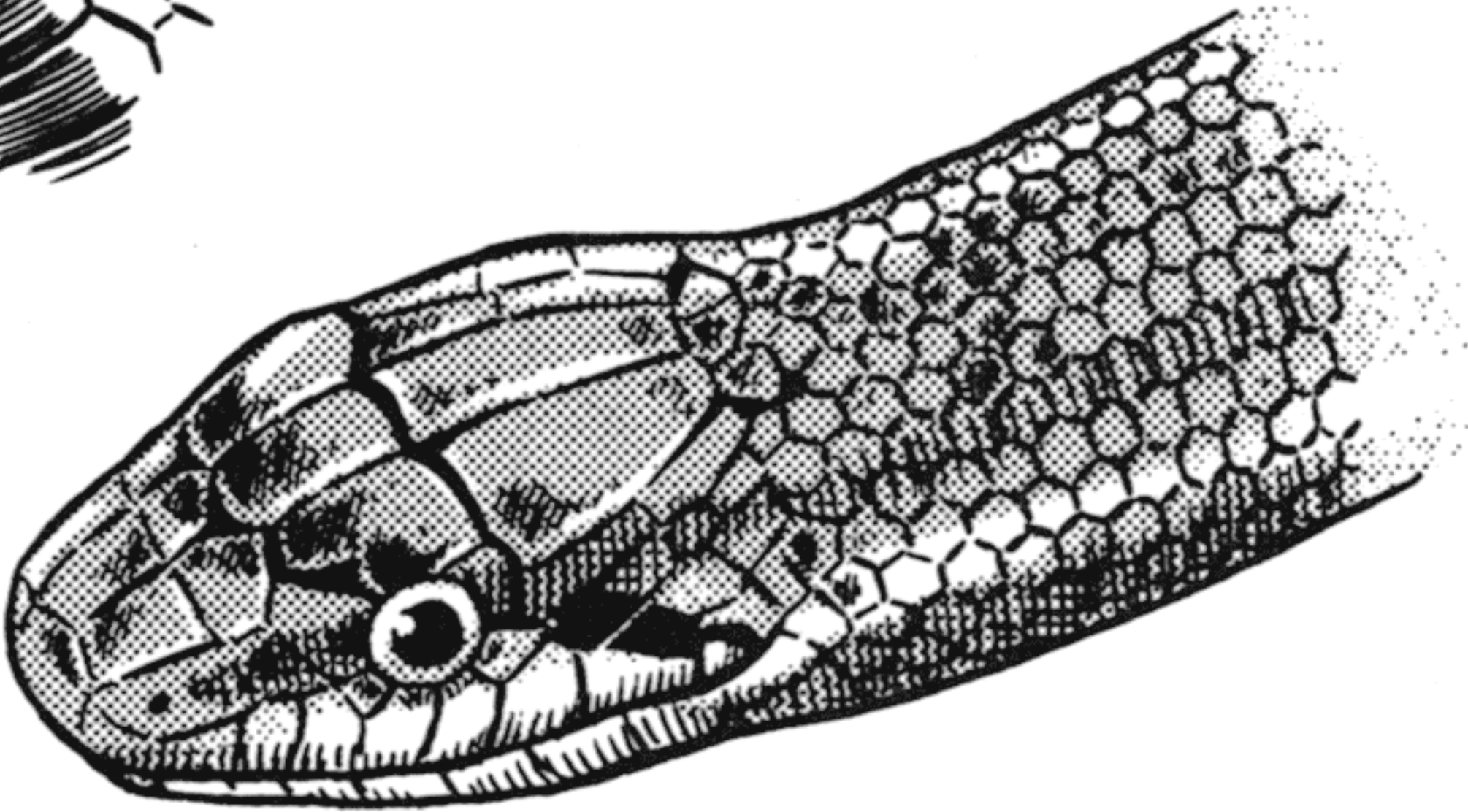
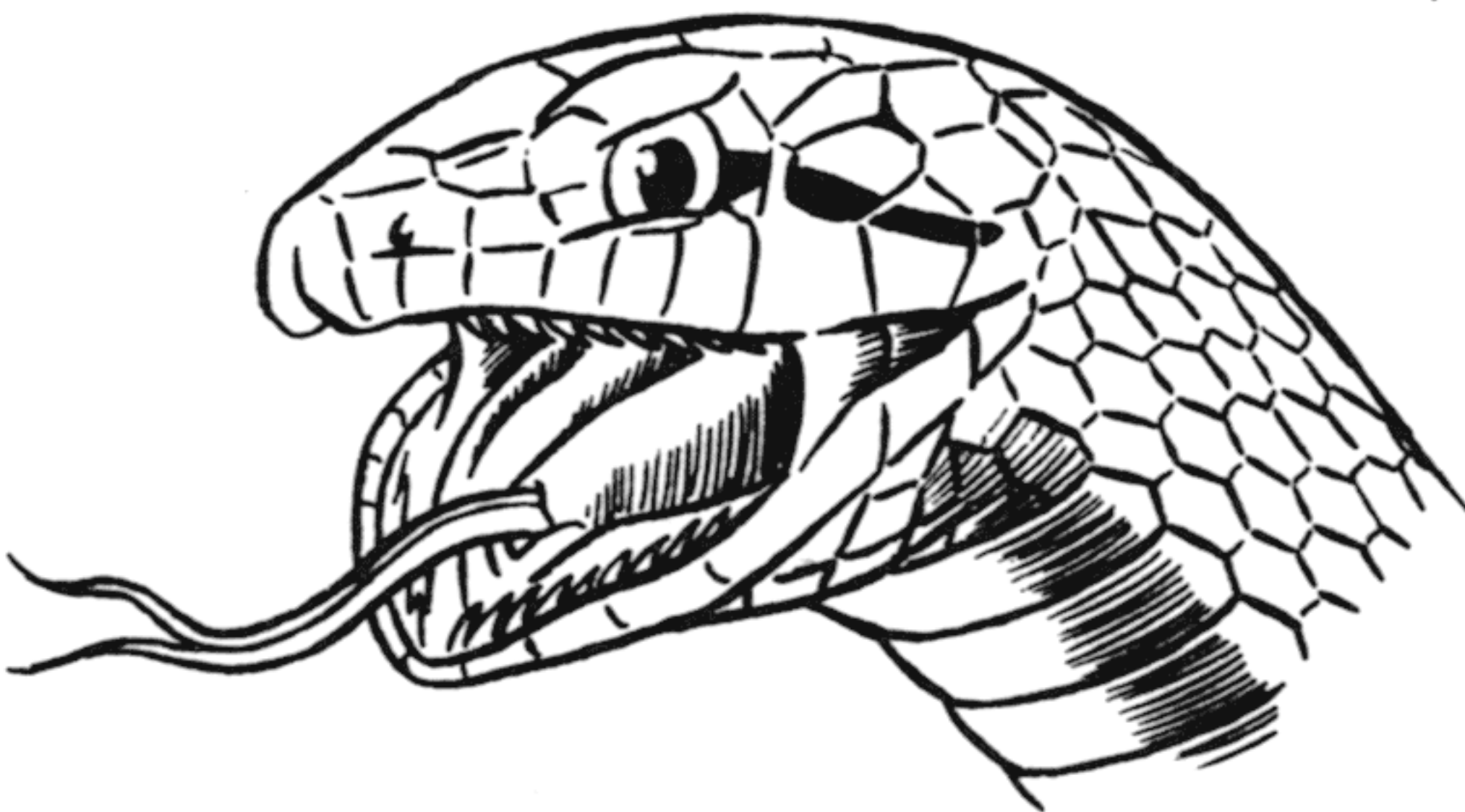
Snakes

Snakes have rope-like bodies and flat heads. Note that the pupils from the front do not appear round, but rather like thin slits.

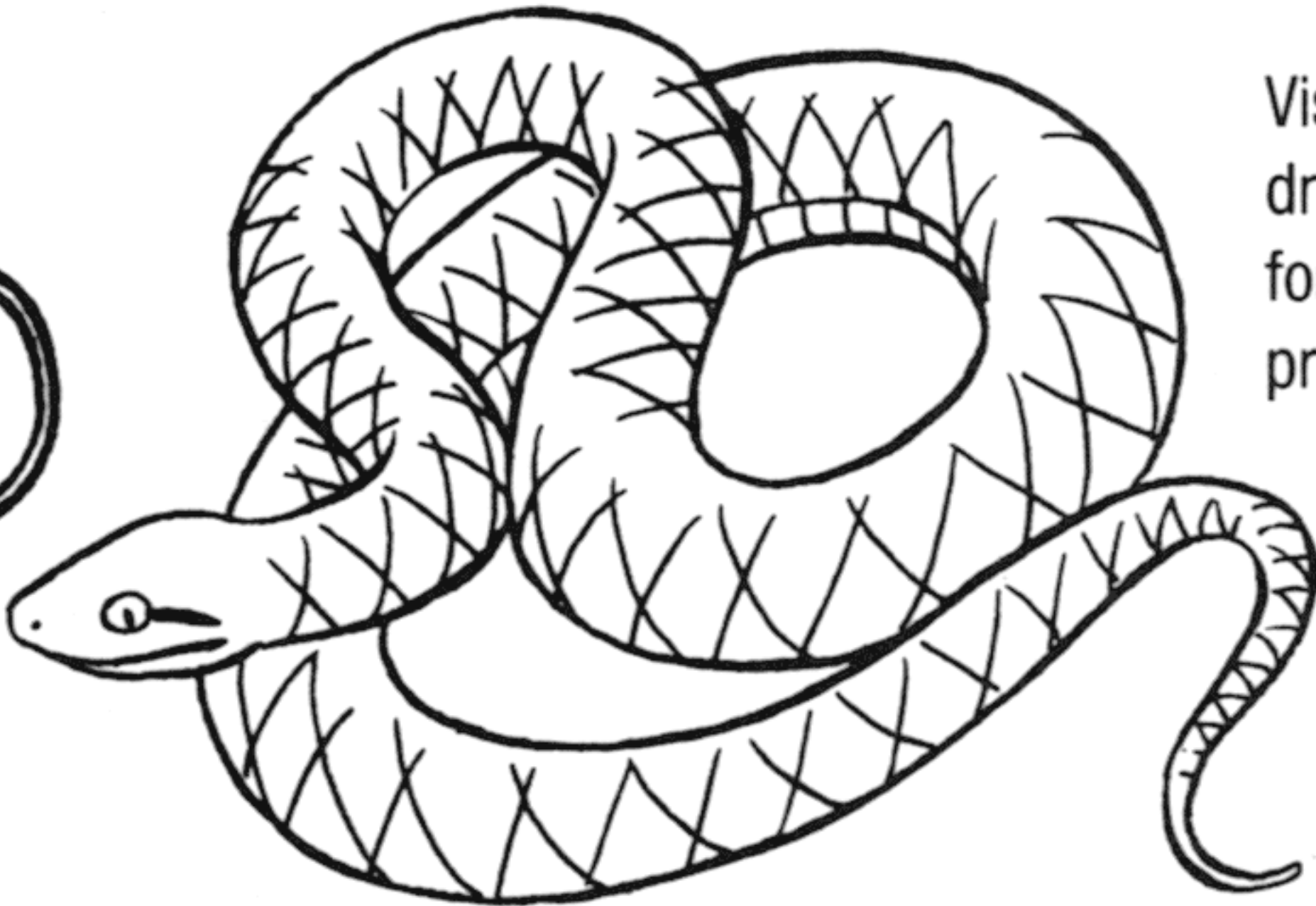
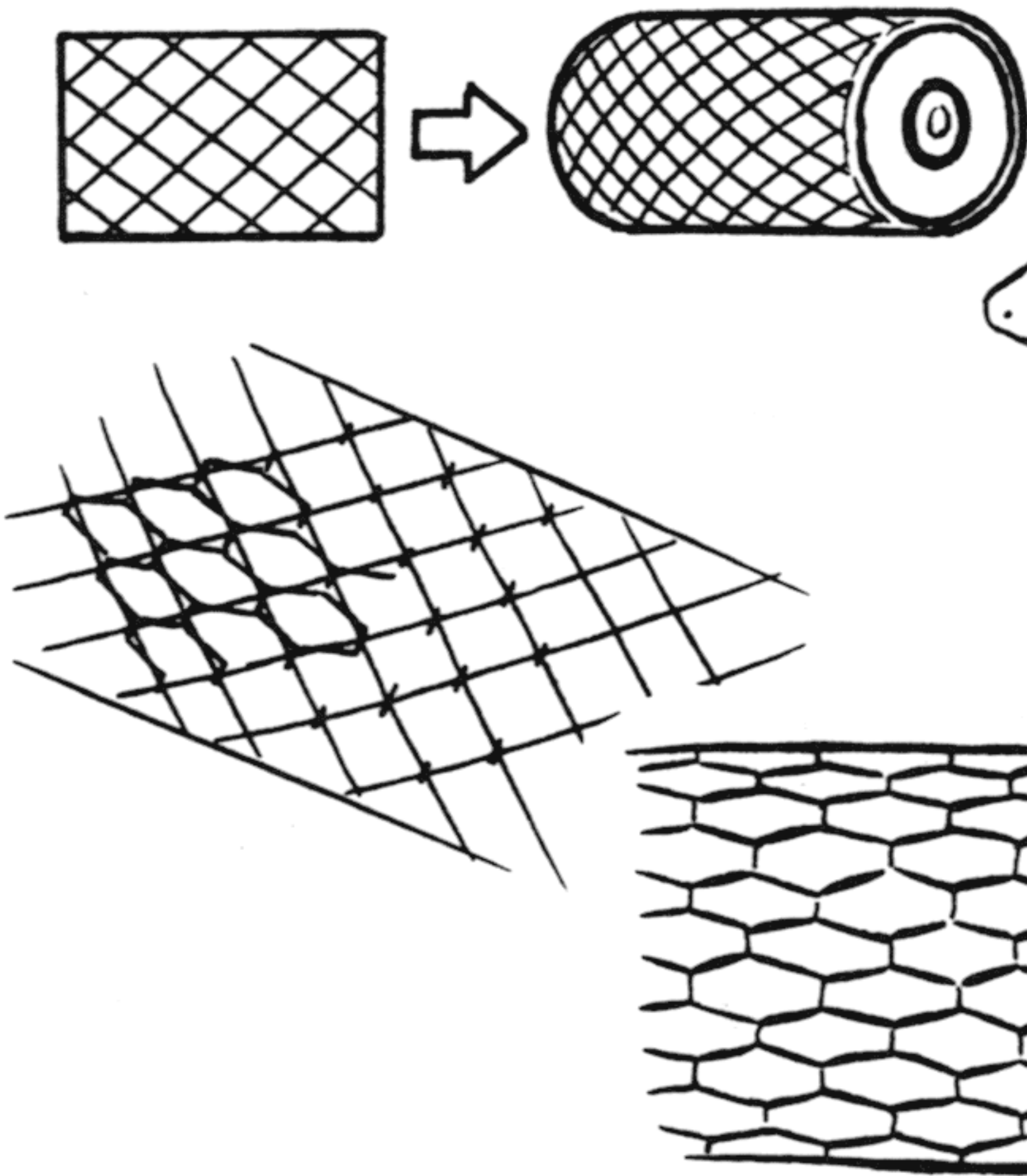


Underside of the head

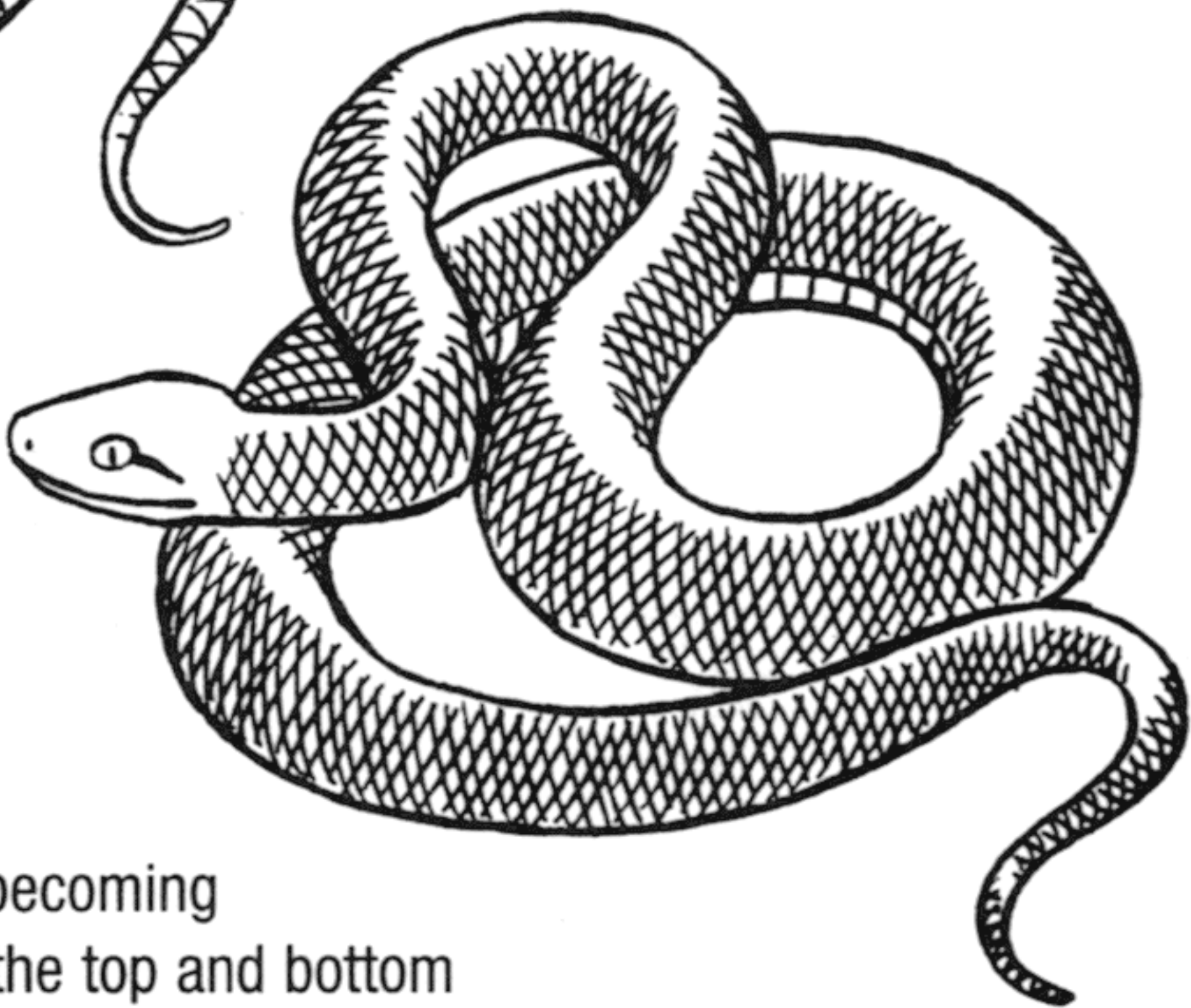
Showing the head raised slightly imparts a sense of motion.



Drawing Snake Scales



Visualizing the spine and drawing the scales in segments for each curve of the spine produces a satisfying image.



Showing the scales becoming compressed toward the top and bottom of the body generates a three-dimensional feel.

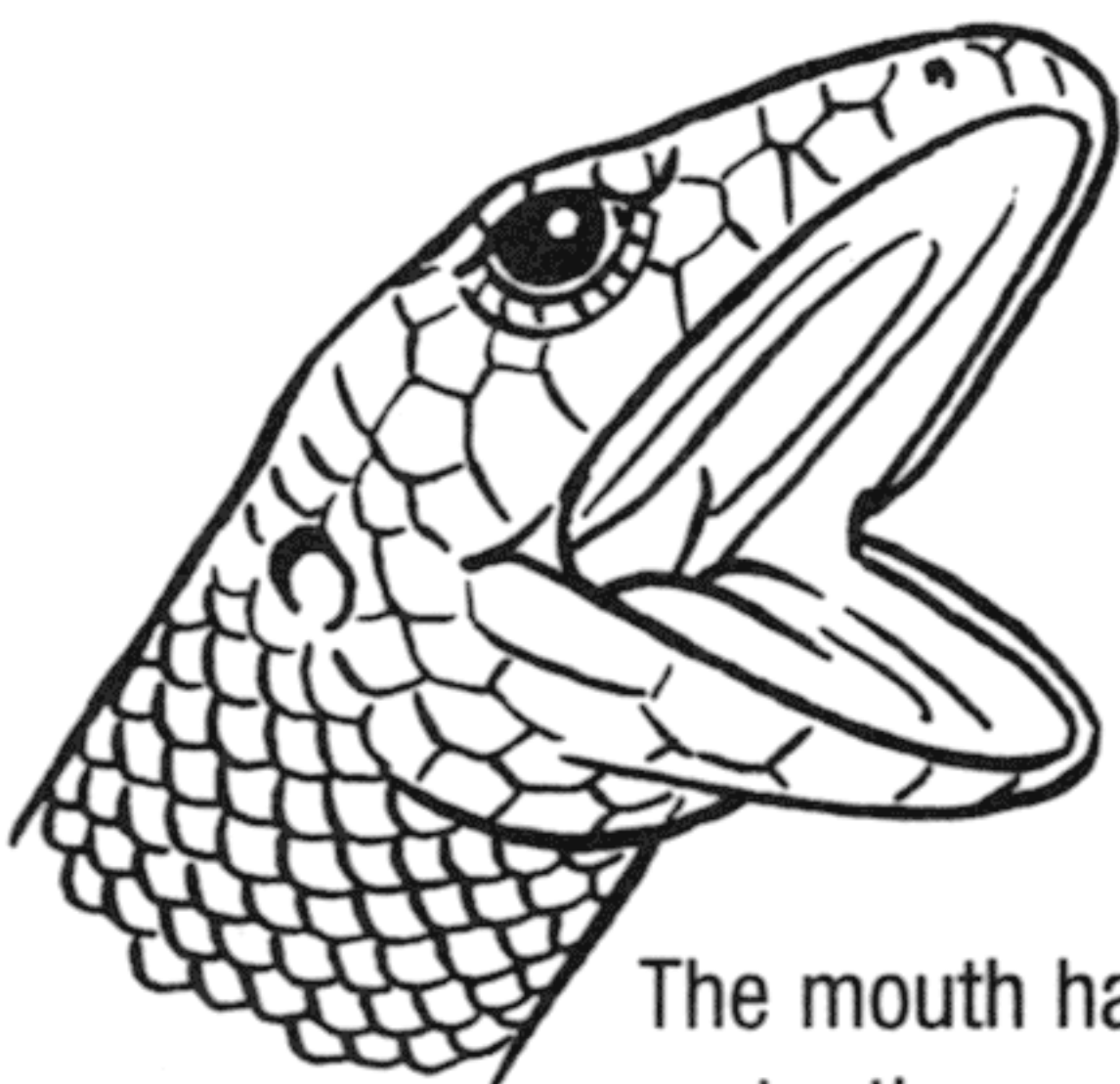


# Lizards

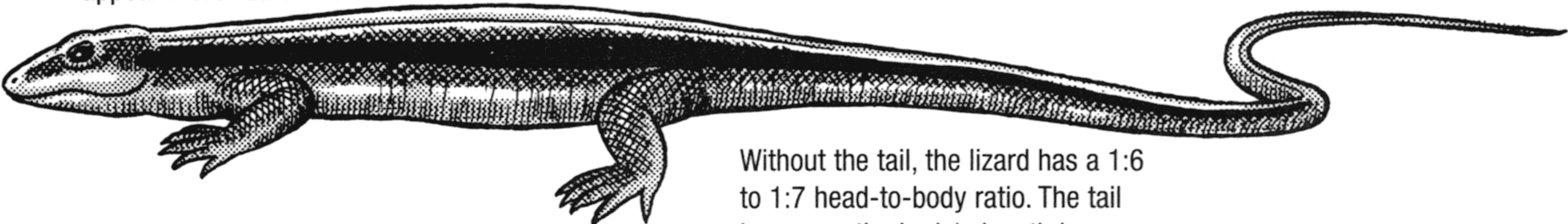
Lizards are basically snakes with feet. However, the abdomen should have a gentle swell, and the body should taper toward the tail, so that the figure does have some curve to it.



The head is virtually the same as that of a snake; however, raised skin should be present above the eyes to make the face appear more lizard-like.



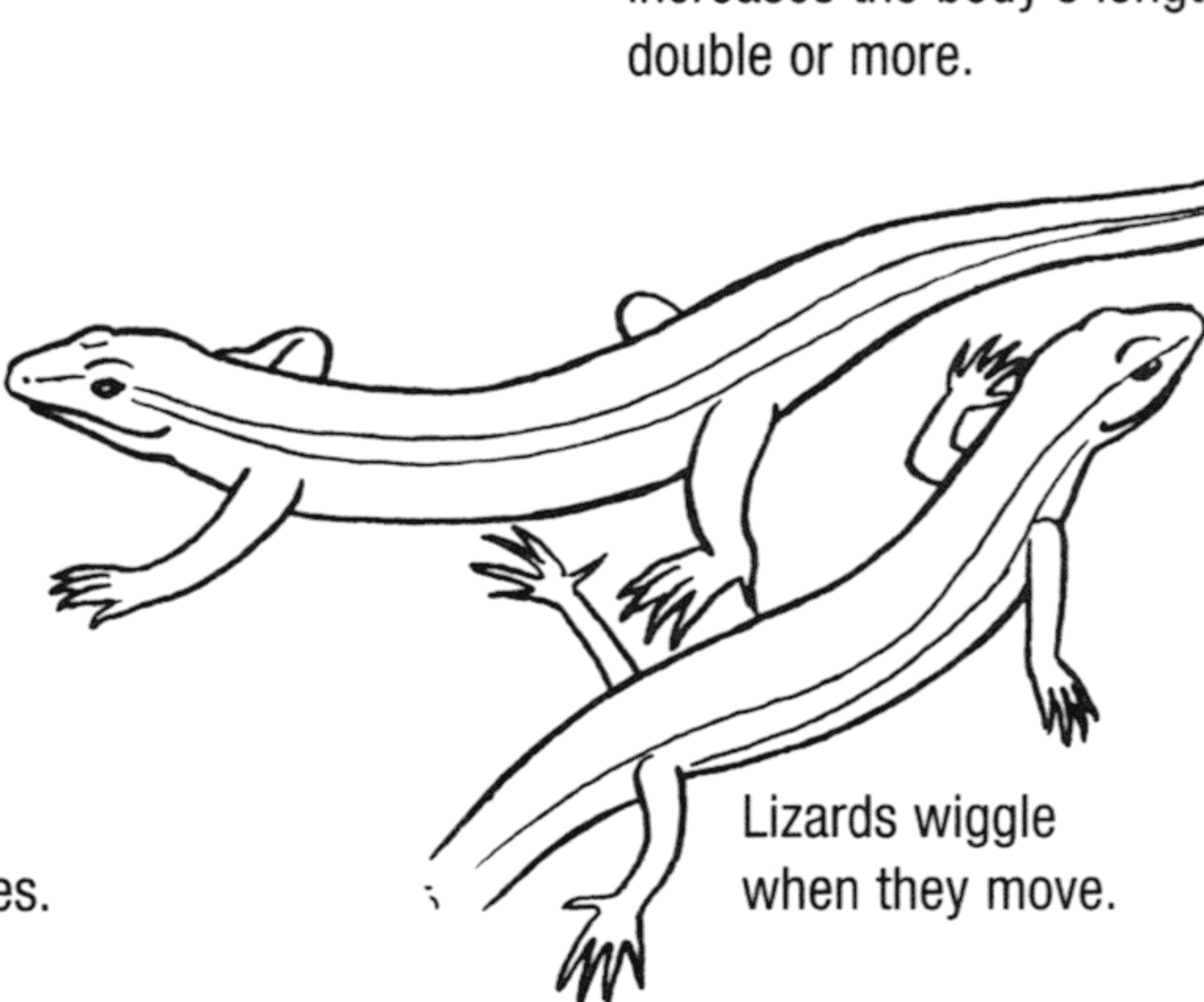
The mouth has no teeth.



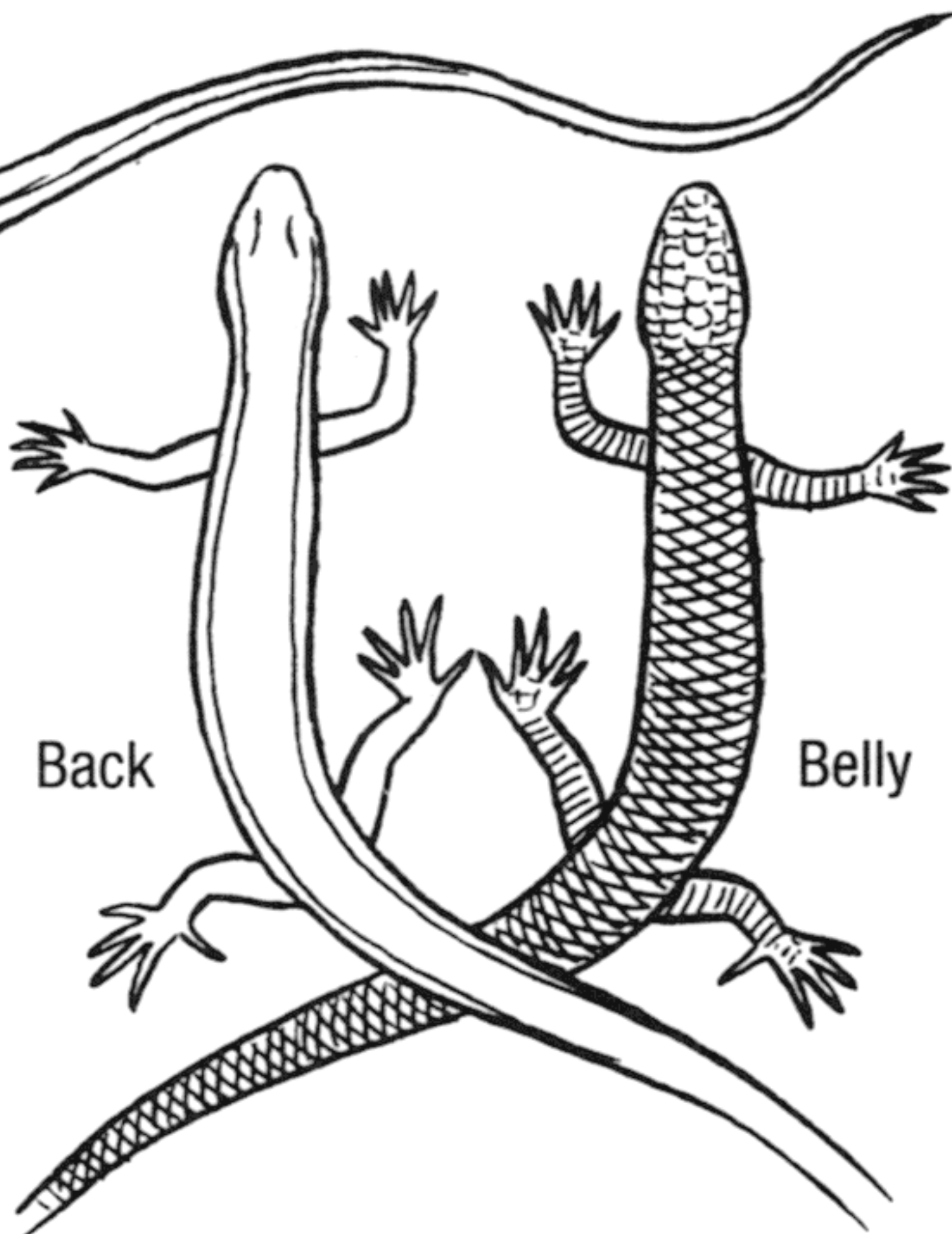
Without the tail, the lizard has a 1:6 to 1:7 head-to-body ratio. The tail increases the body's length by double or more.



The feet have five slender toes.

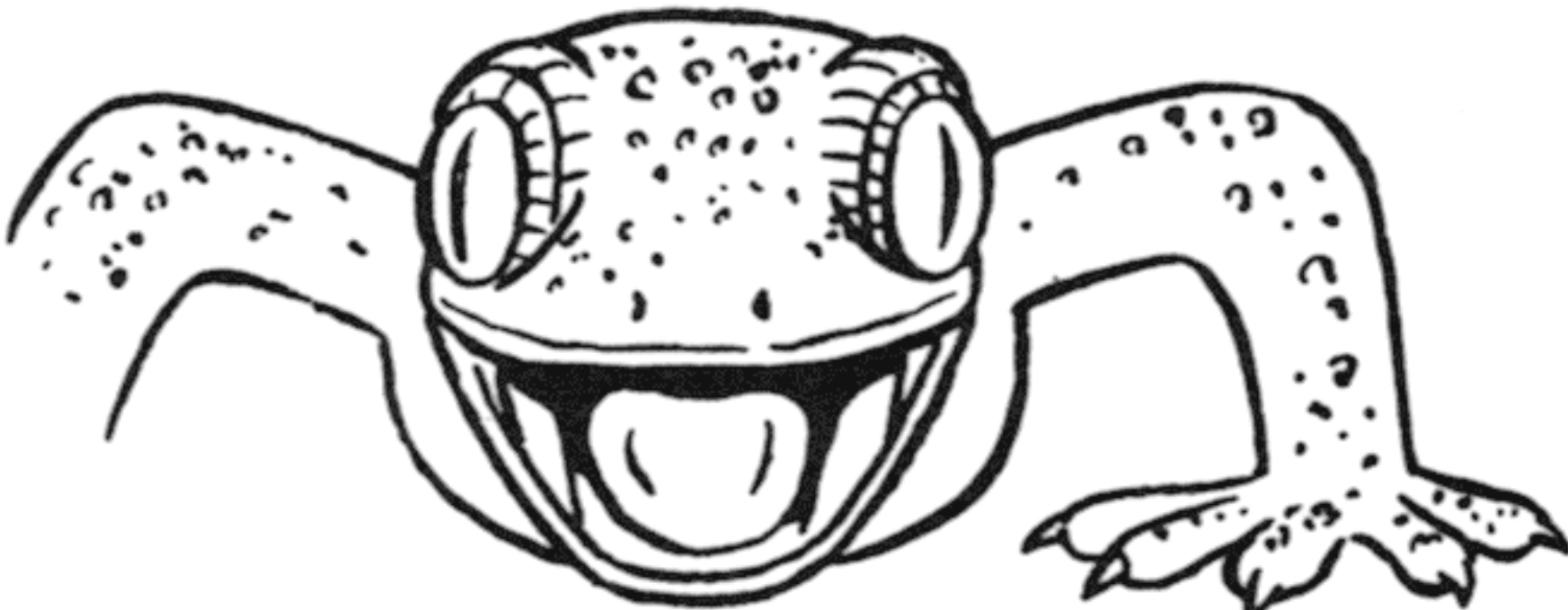
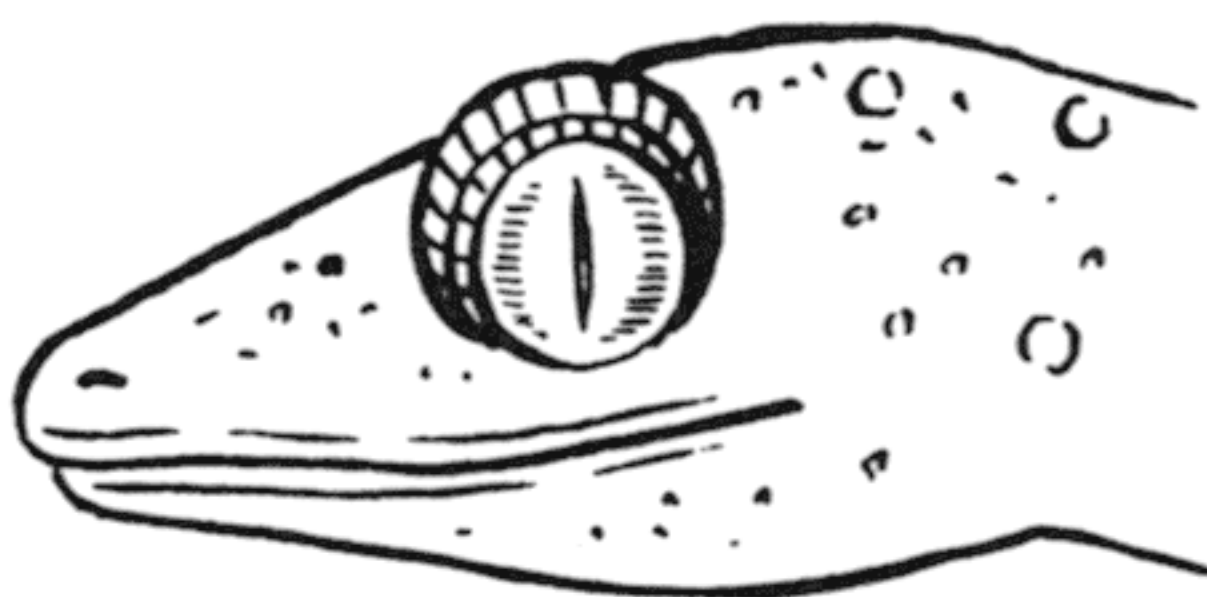
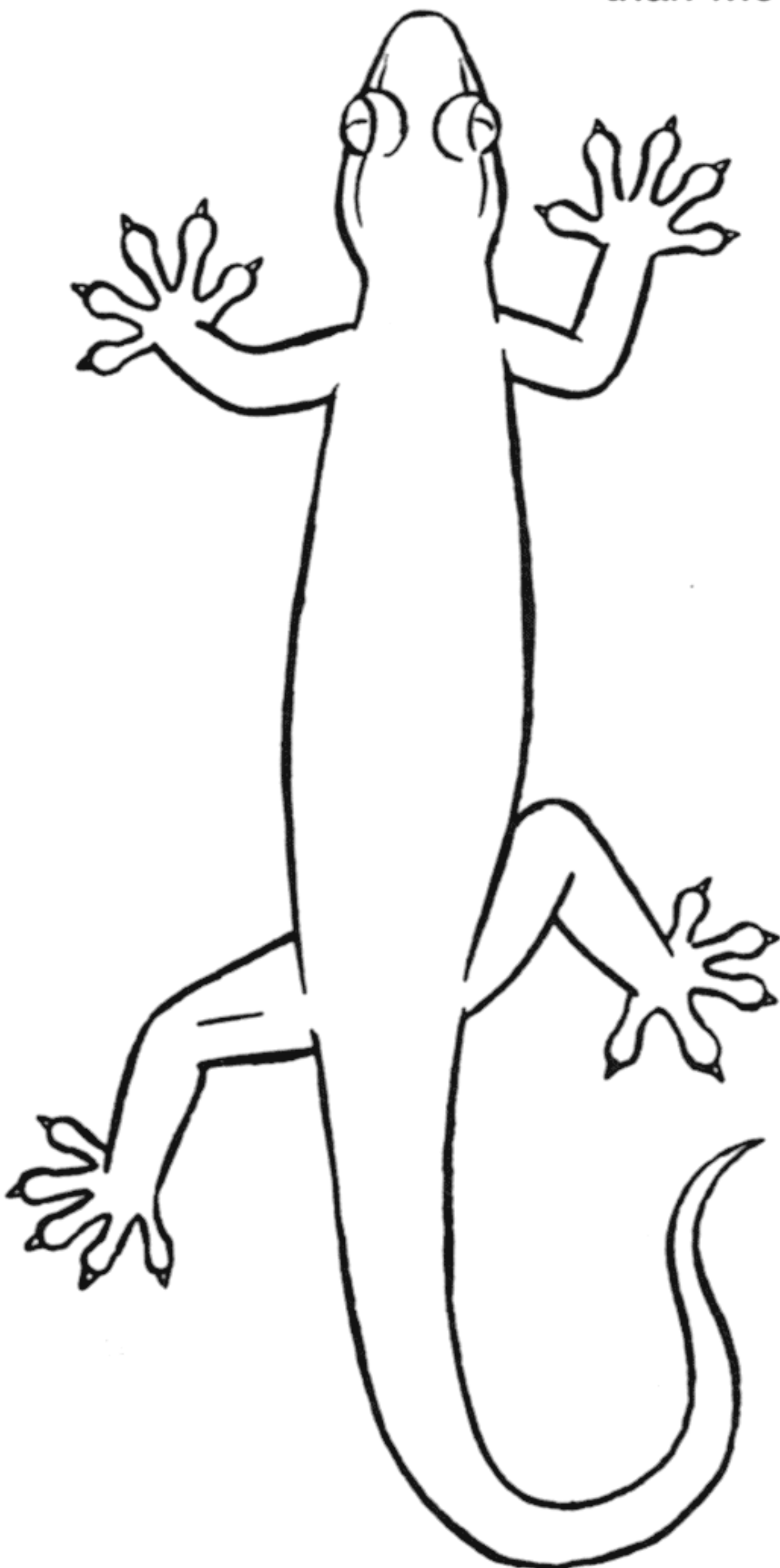


Lizards wiggle when they move.

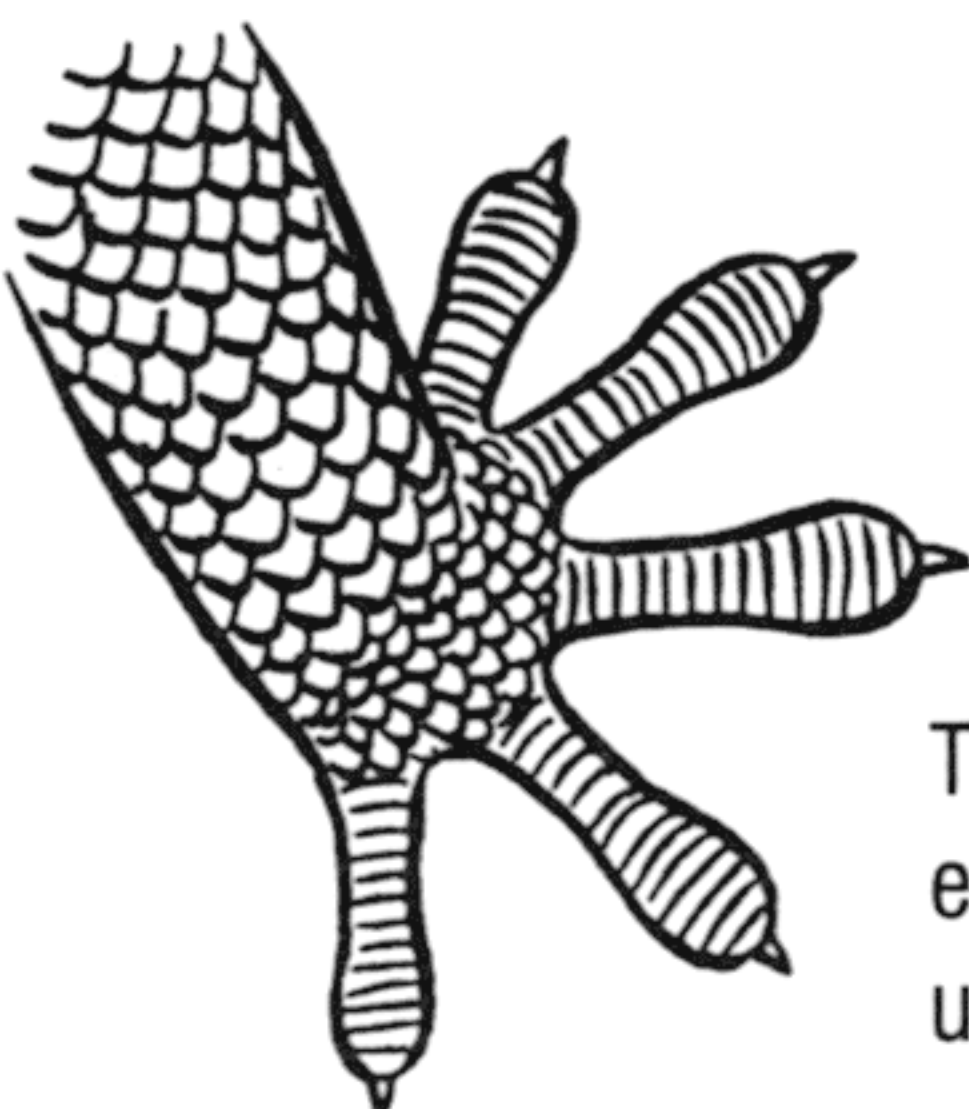
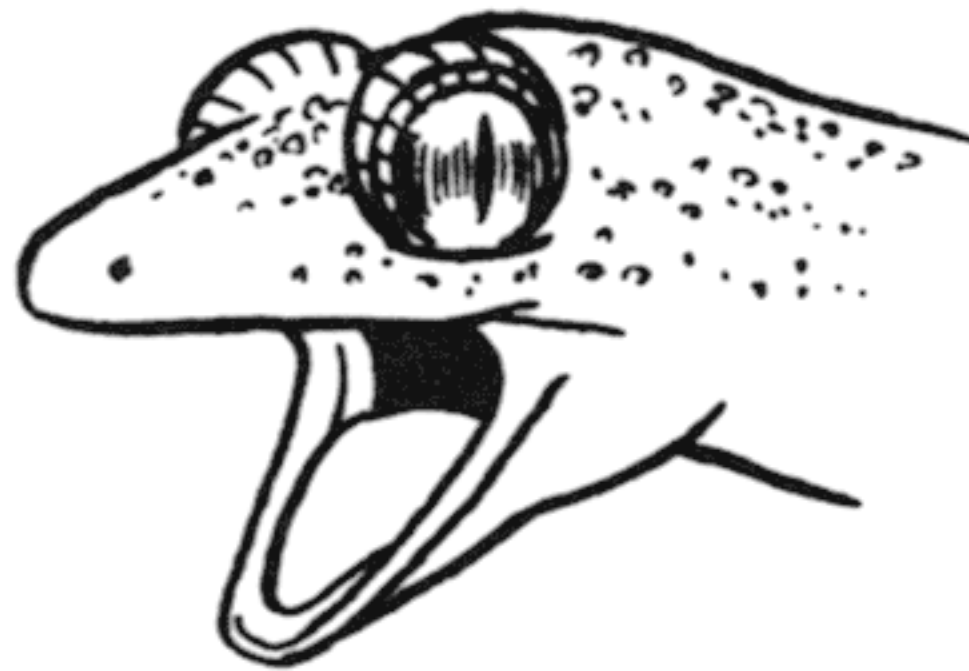


# Geckos

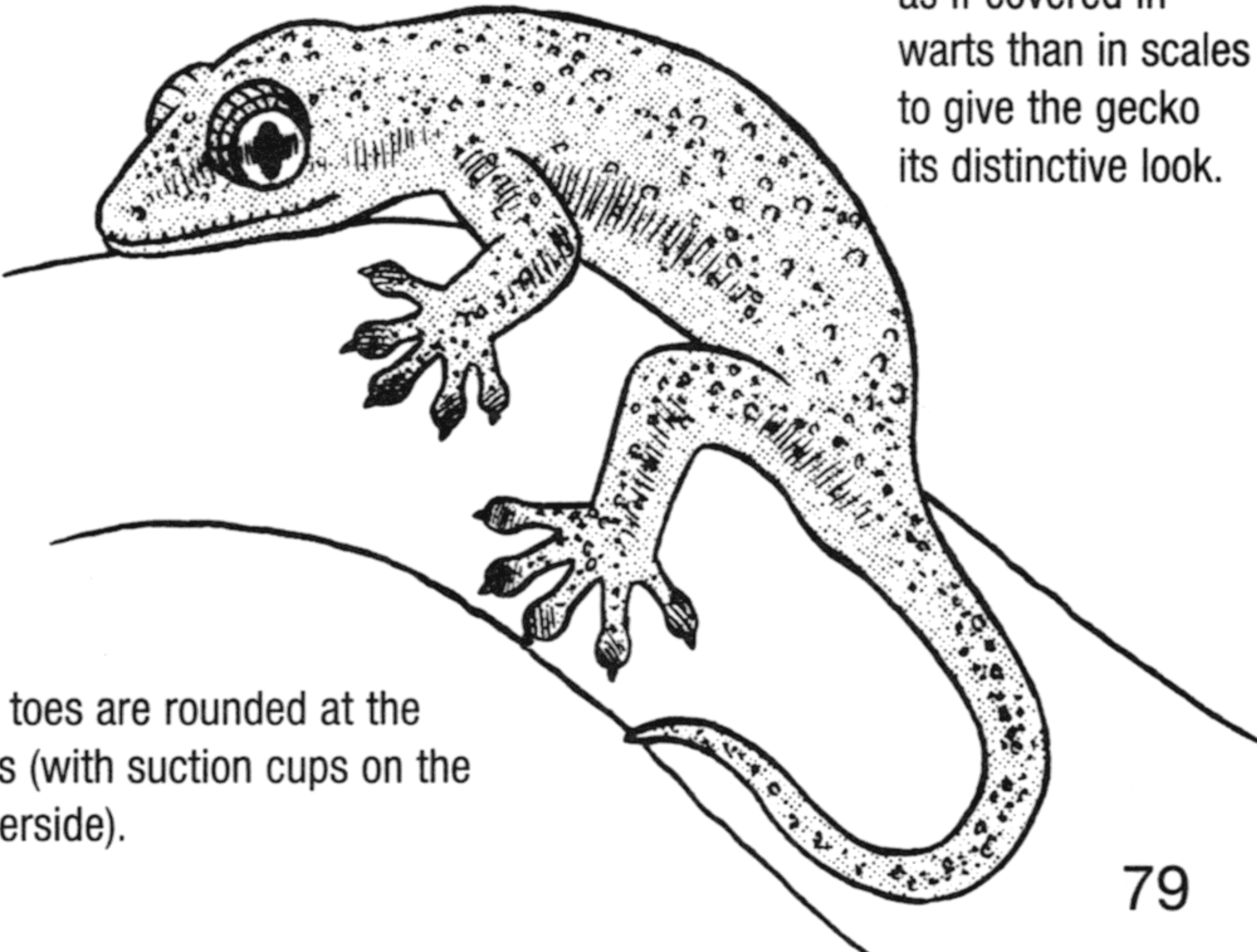
Geckos tend to be tubbier than most lizards.



Draw the skin more as if covered in warts than in scales to give the gecko its distinctive look.

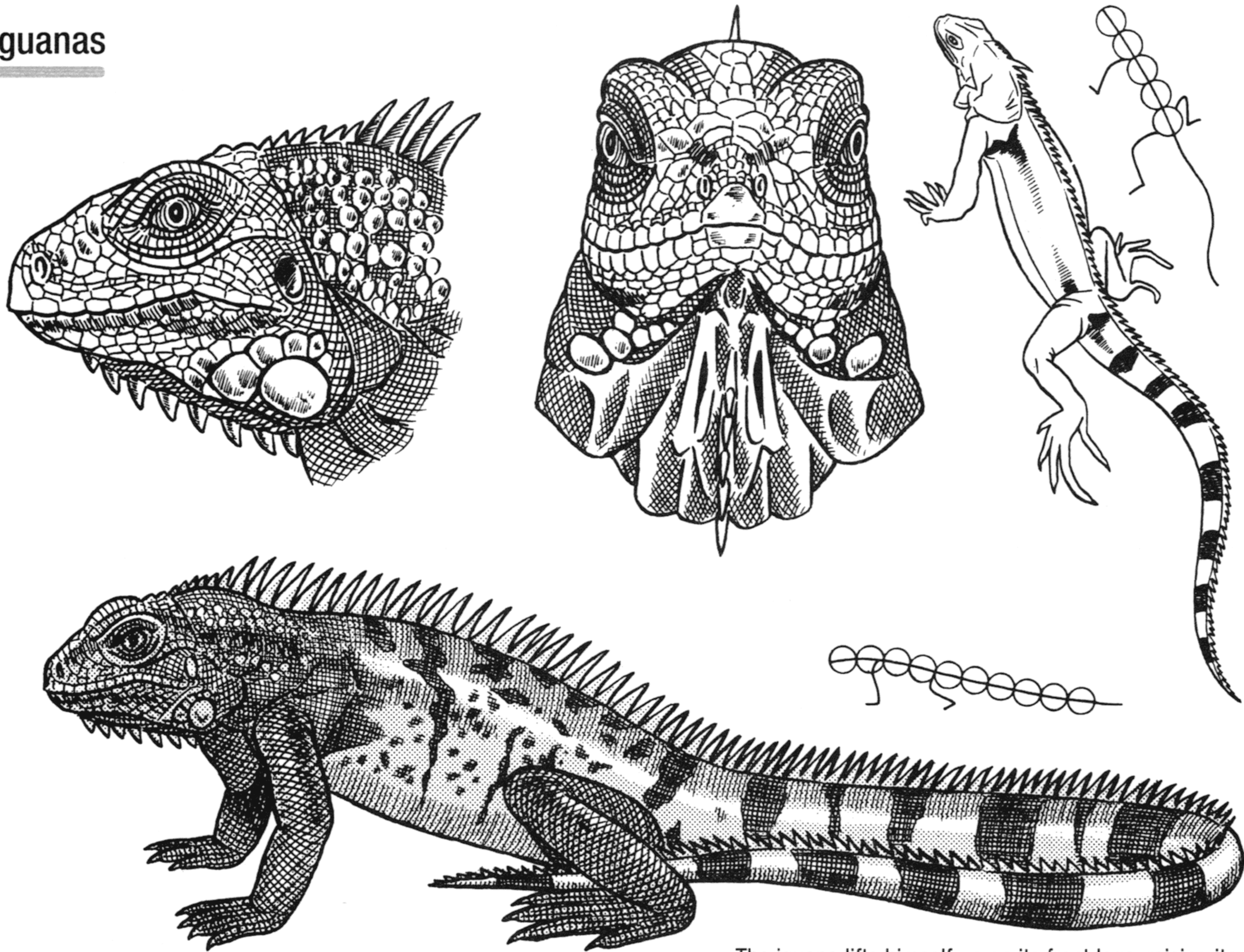


The toes are rounded at the ends (with suction cups on the underside).



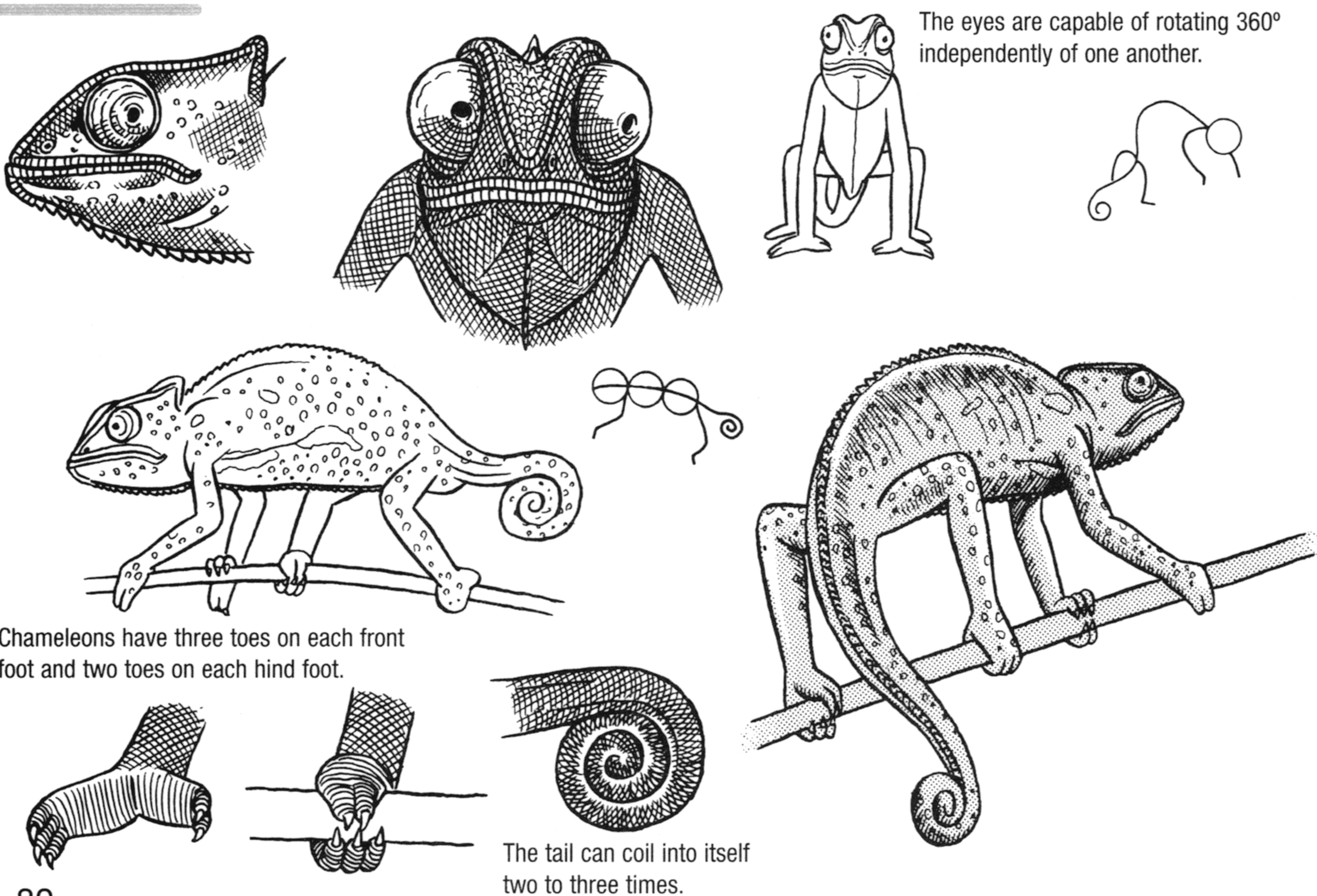


Iguanas



The iguana lifts himself up on its front legs, raising its head approximately one head-height off the ground.

Chameleons



The eyes are capable of rotating 360° independently of one another.

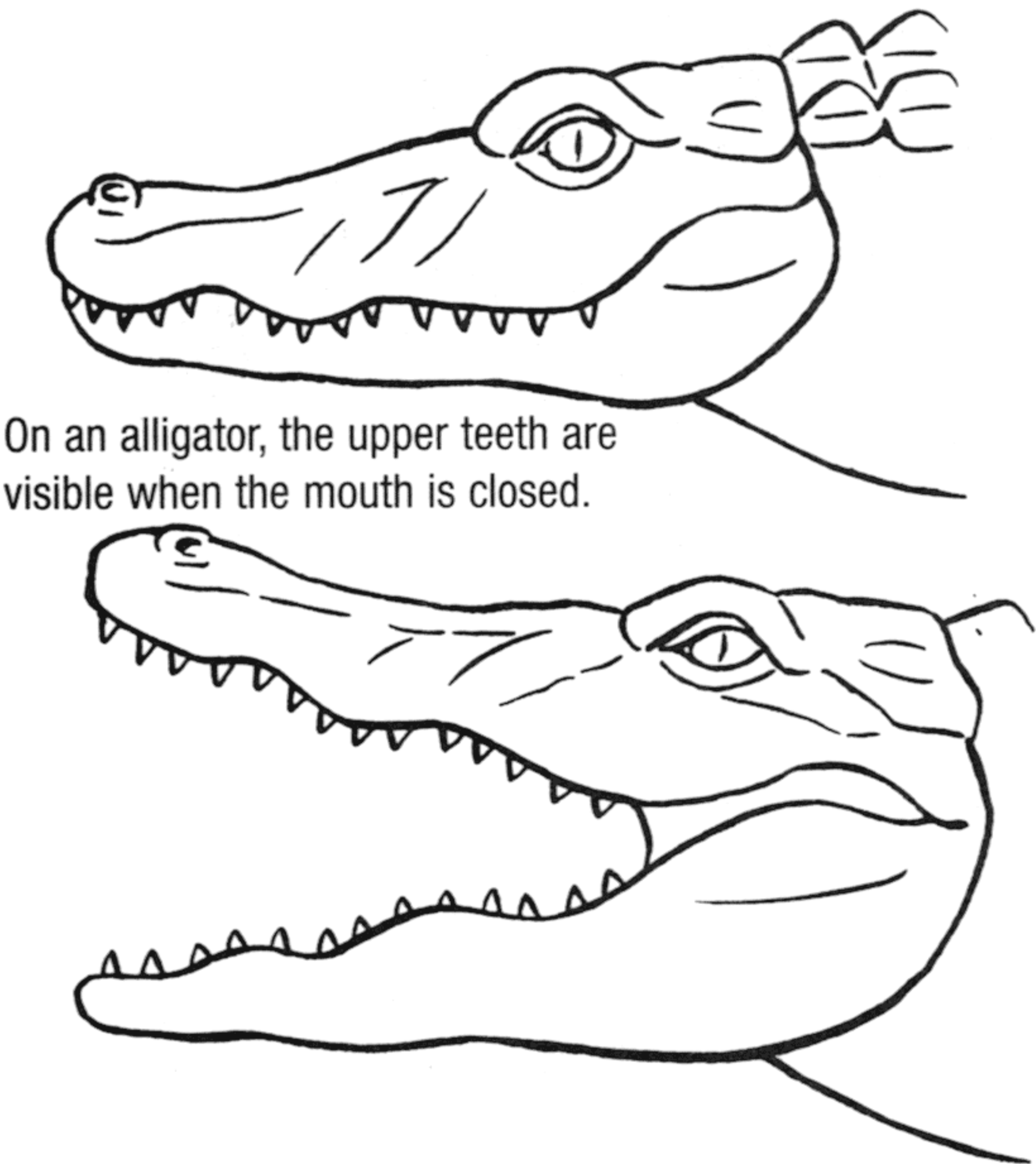
Chameleons have three toes on each front foot and two toes on each hind foot.

The tail can coil into itself two to three times.



# Alligators and Crocodiles

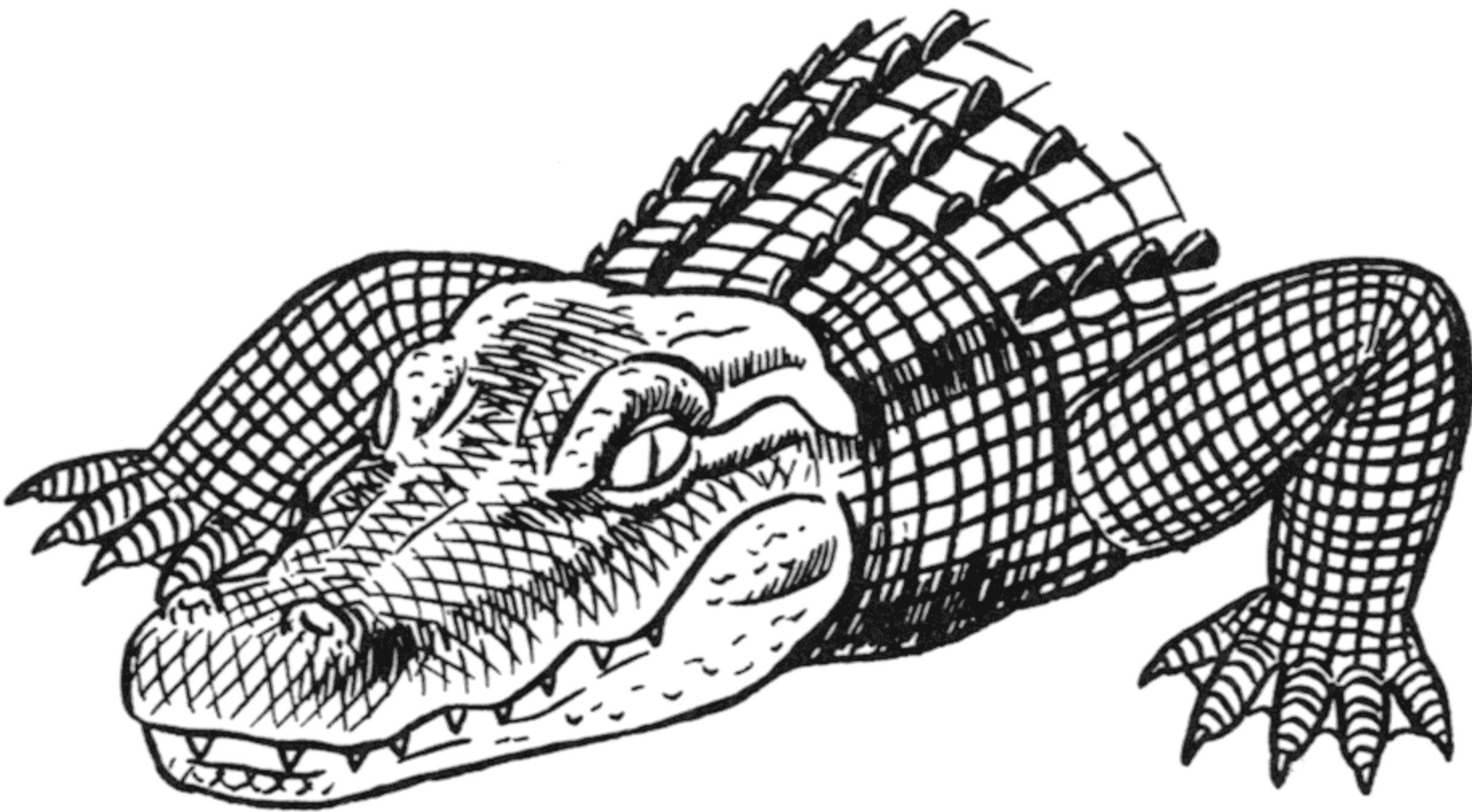
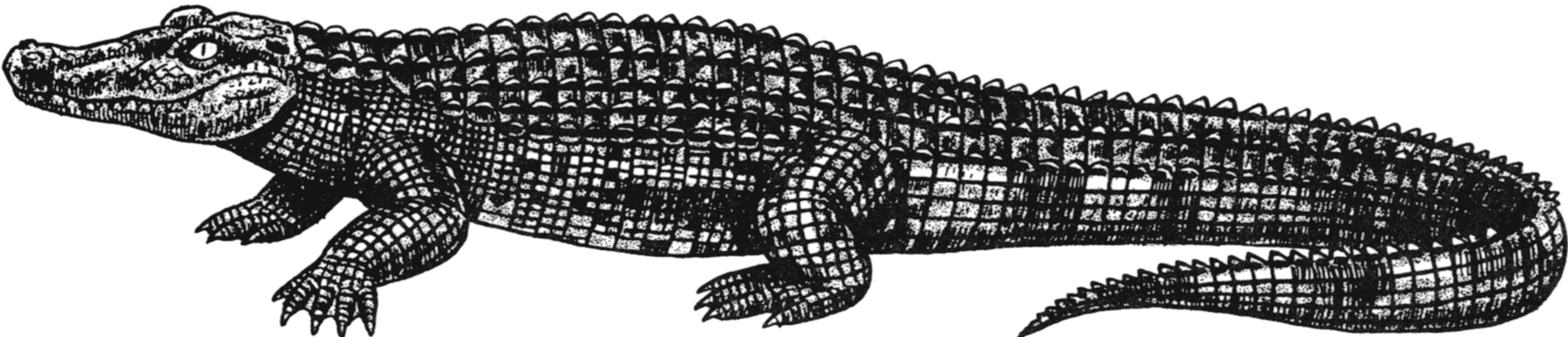
Give the scales on an alligator or crocodiles back a rugged, angular look to evoke the feeling of the animal's stiff hide.



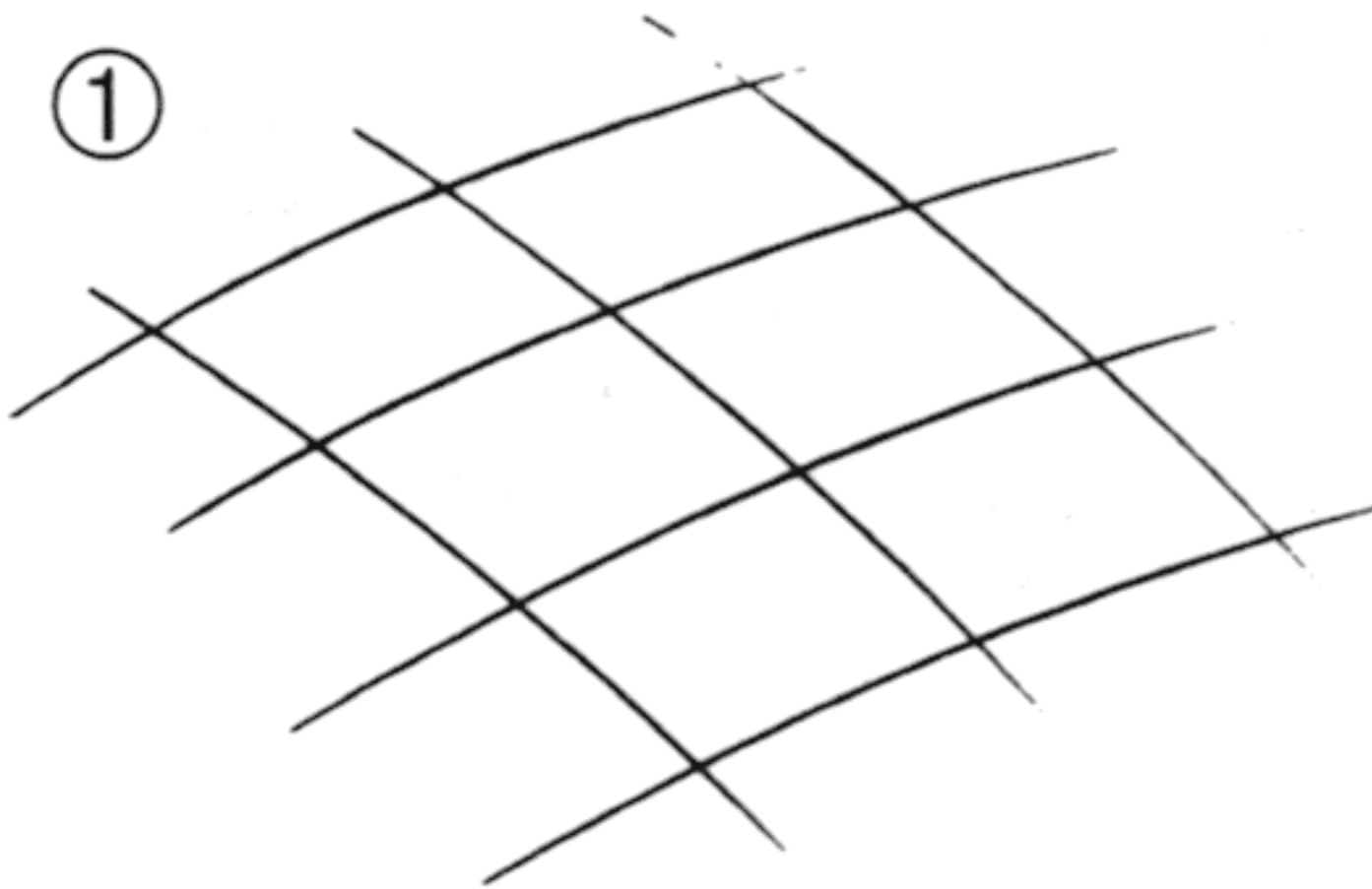
On an alligator, the upper teeth are visible when the mouth is closed.



On a crocodile, both the upper and lower teeth are visible when the mouth is closed.



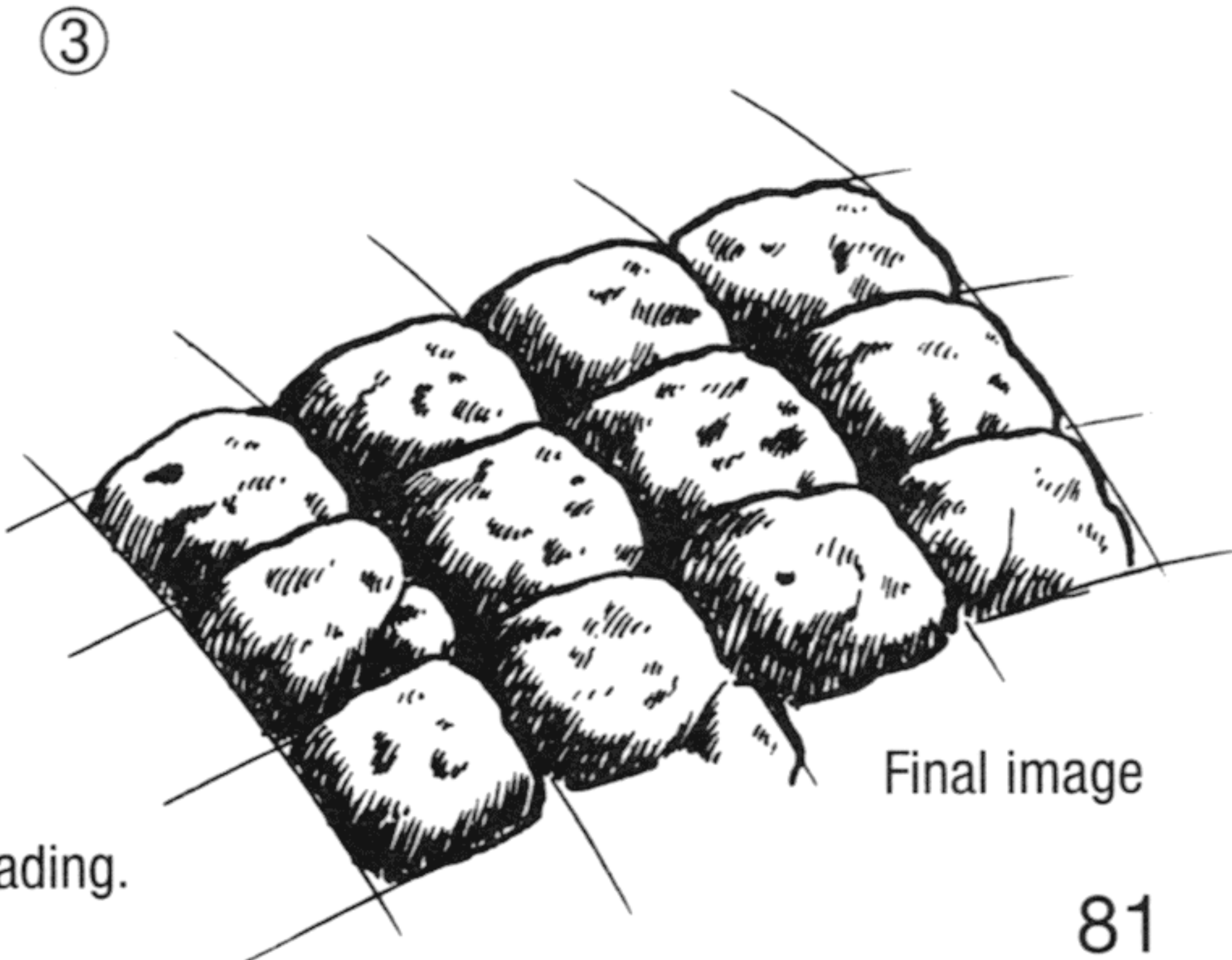
## Drawing the Scales



Draw the layout lines adhering to the body's curved surface.



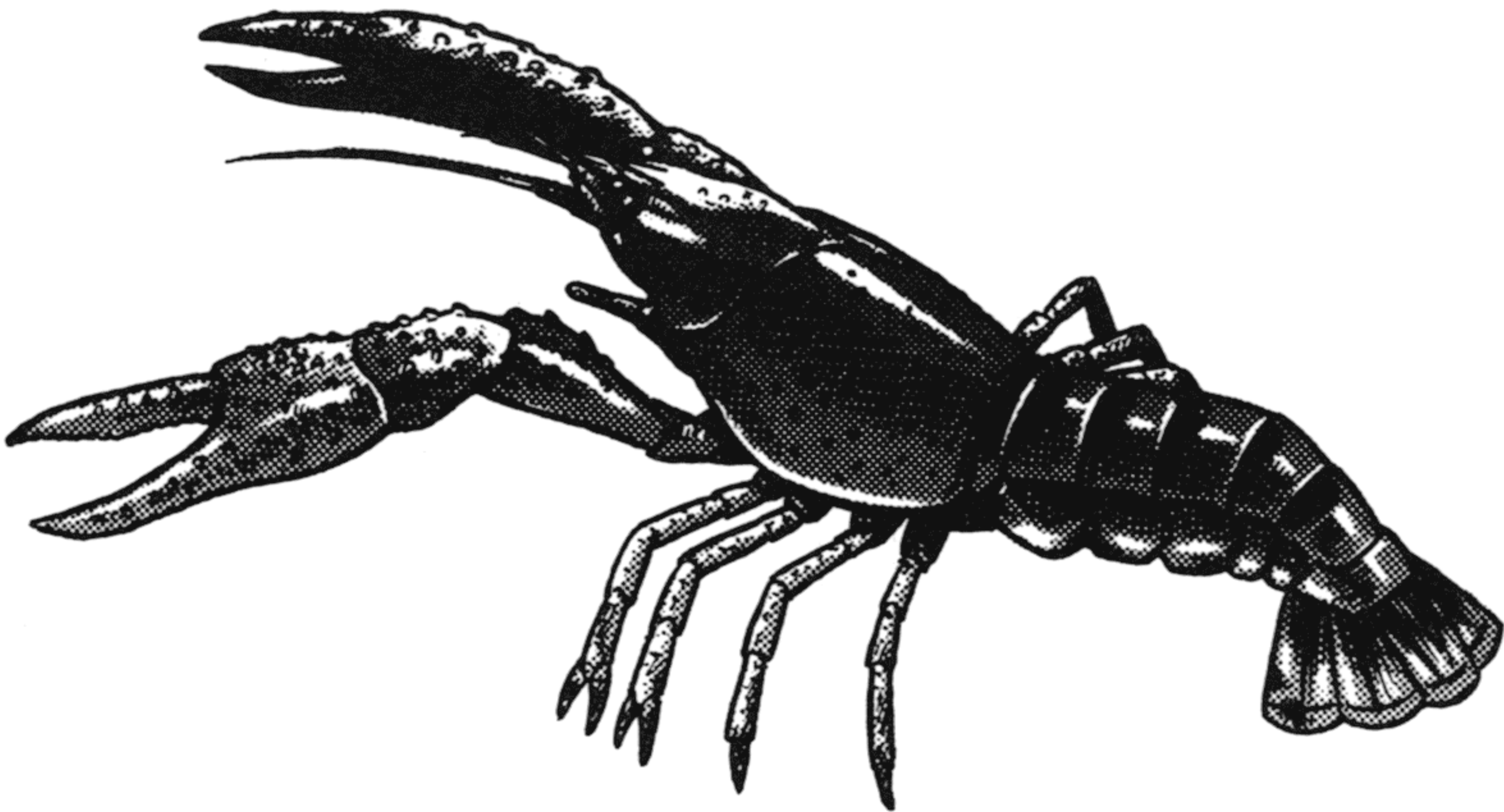
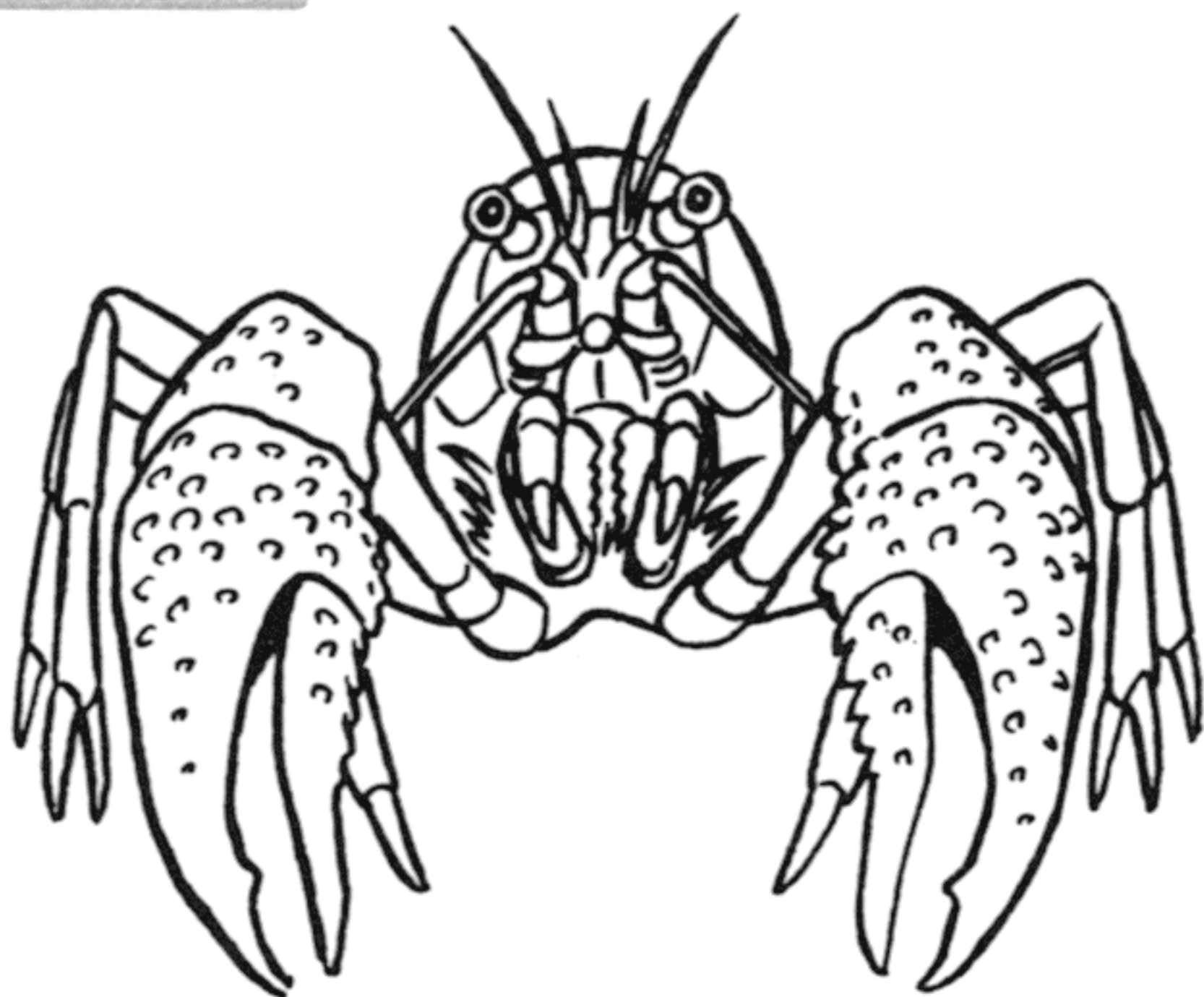
Draw coarse, irregular blocks that are reminiscent of alligator hide and add shading.



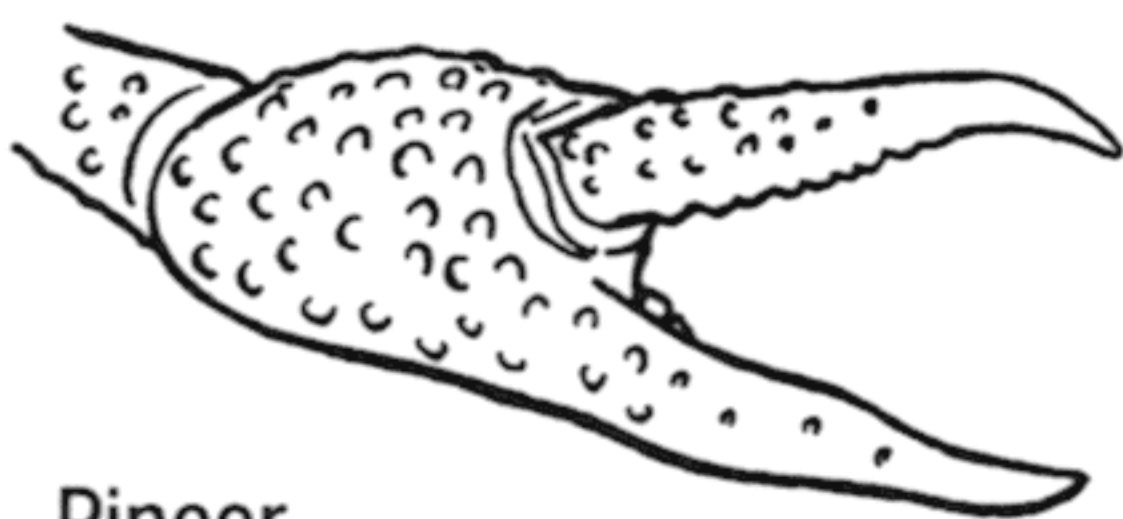
Final image



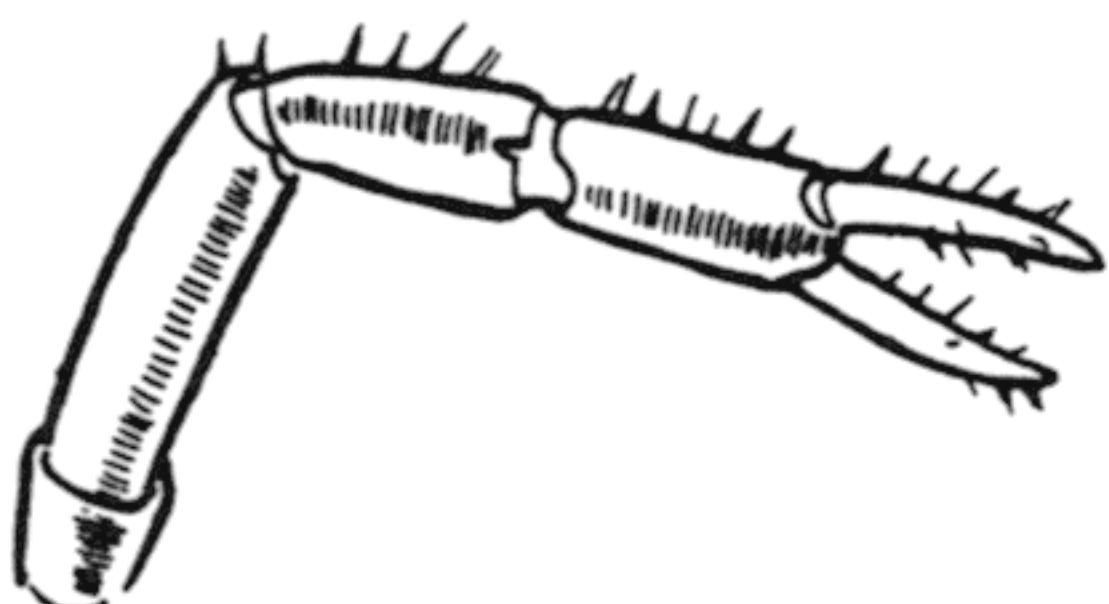
# Crayfish



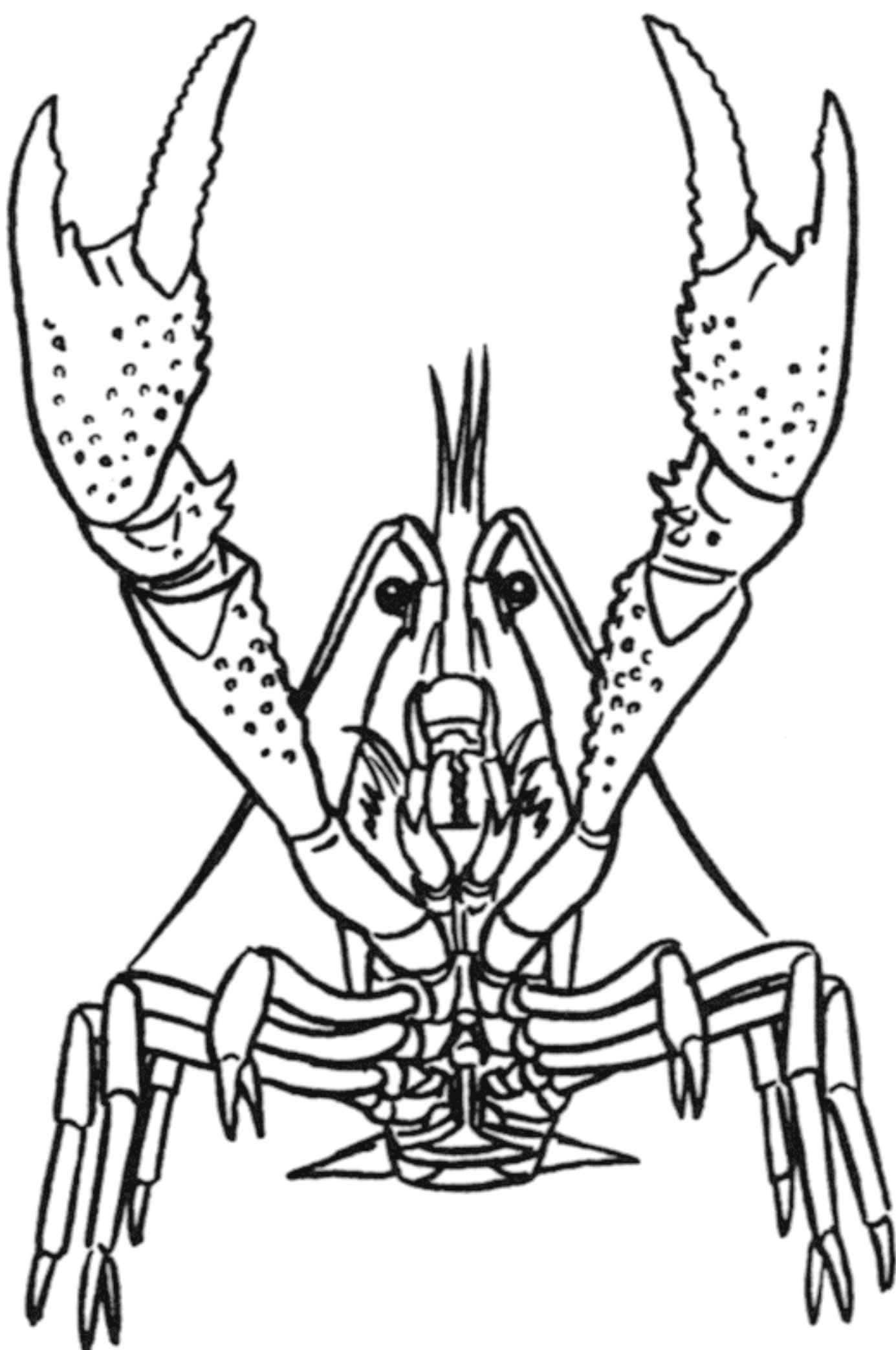
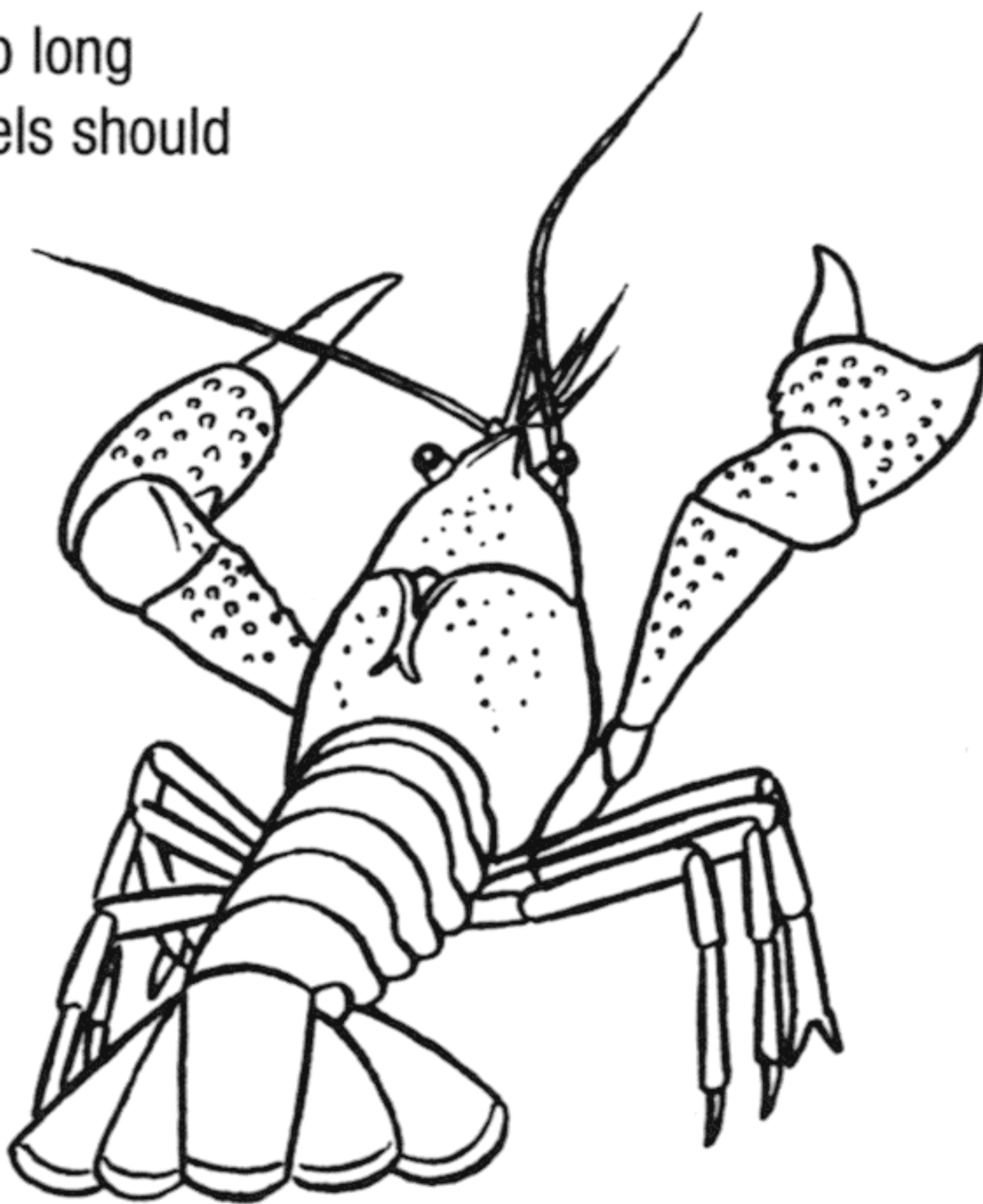
Excluding the pincers, crayfish have four legs on each side for a total of eight. Giving the figure two long barbells (feelers) and two to four short barbels should create an authentic looking crayfish.



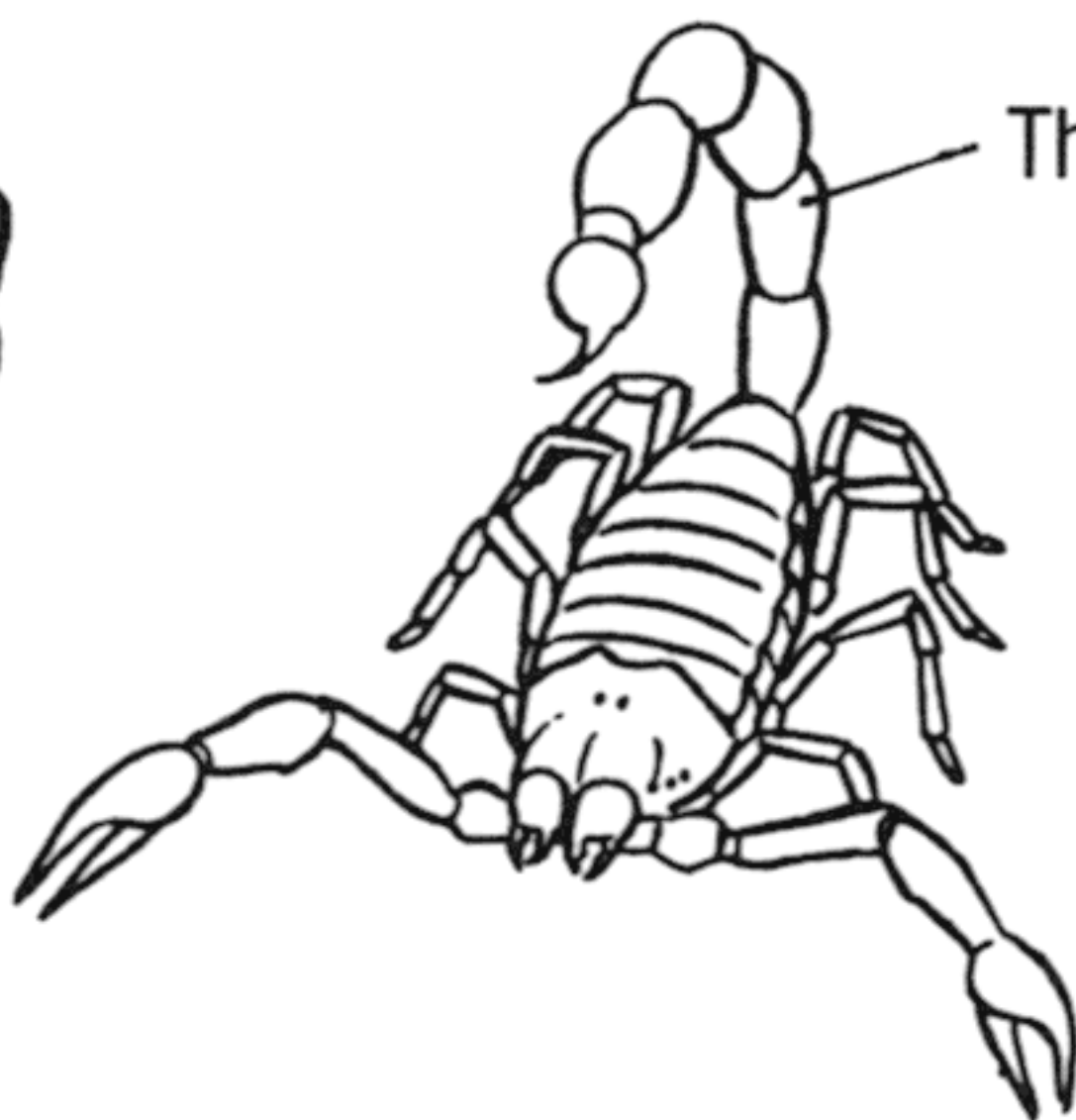
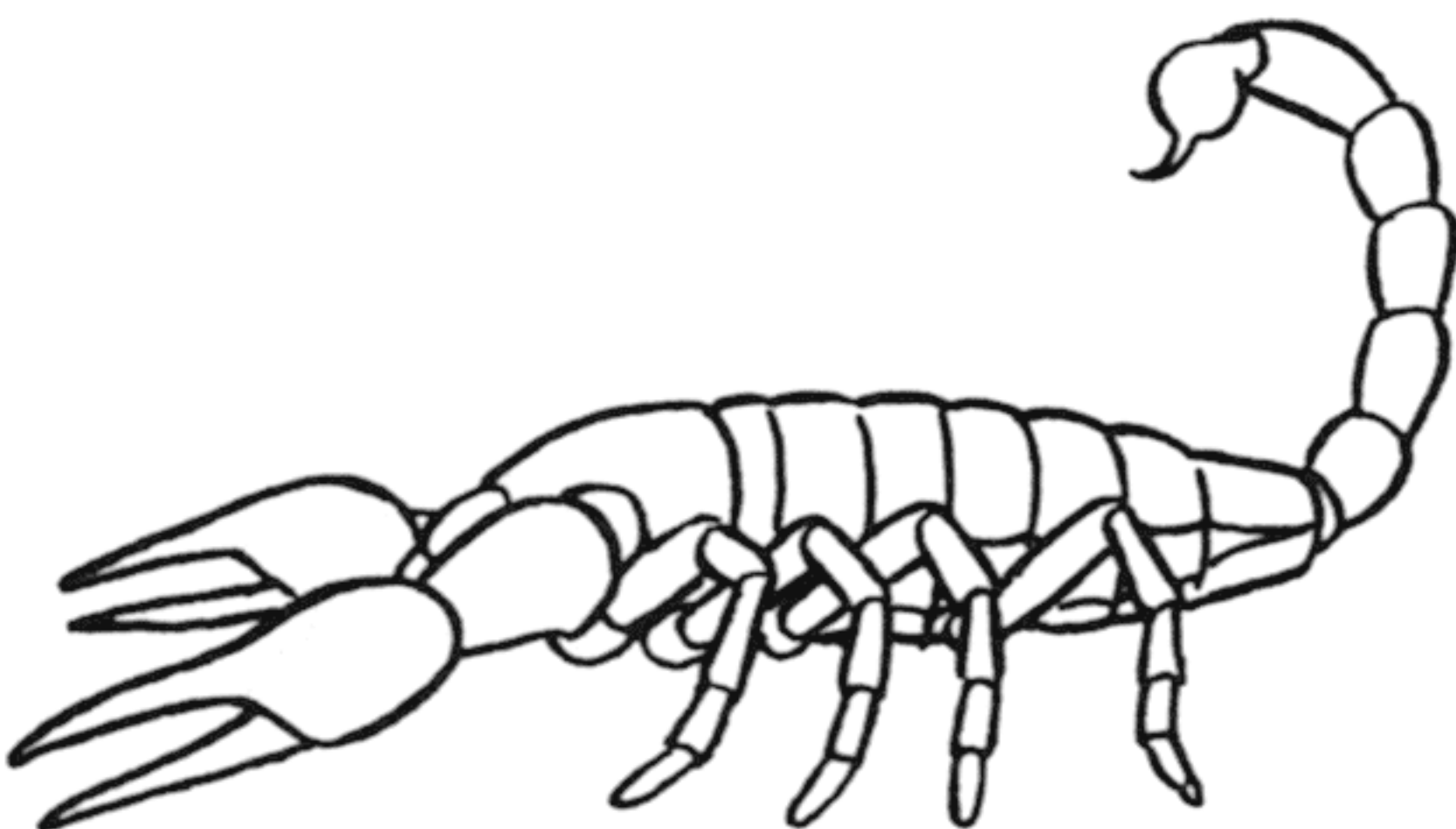
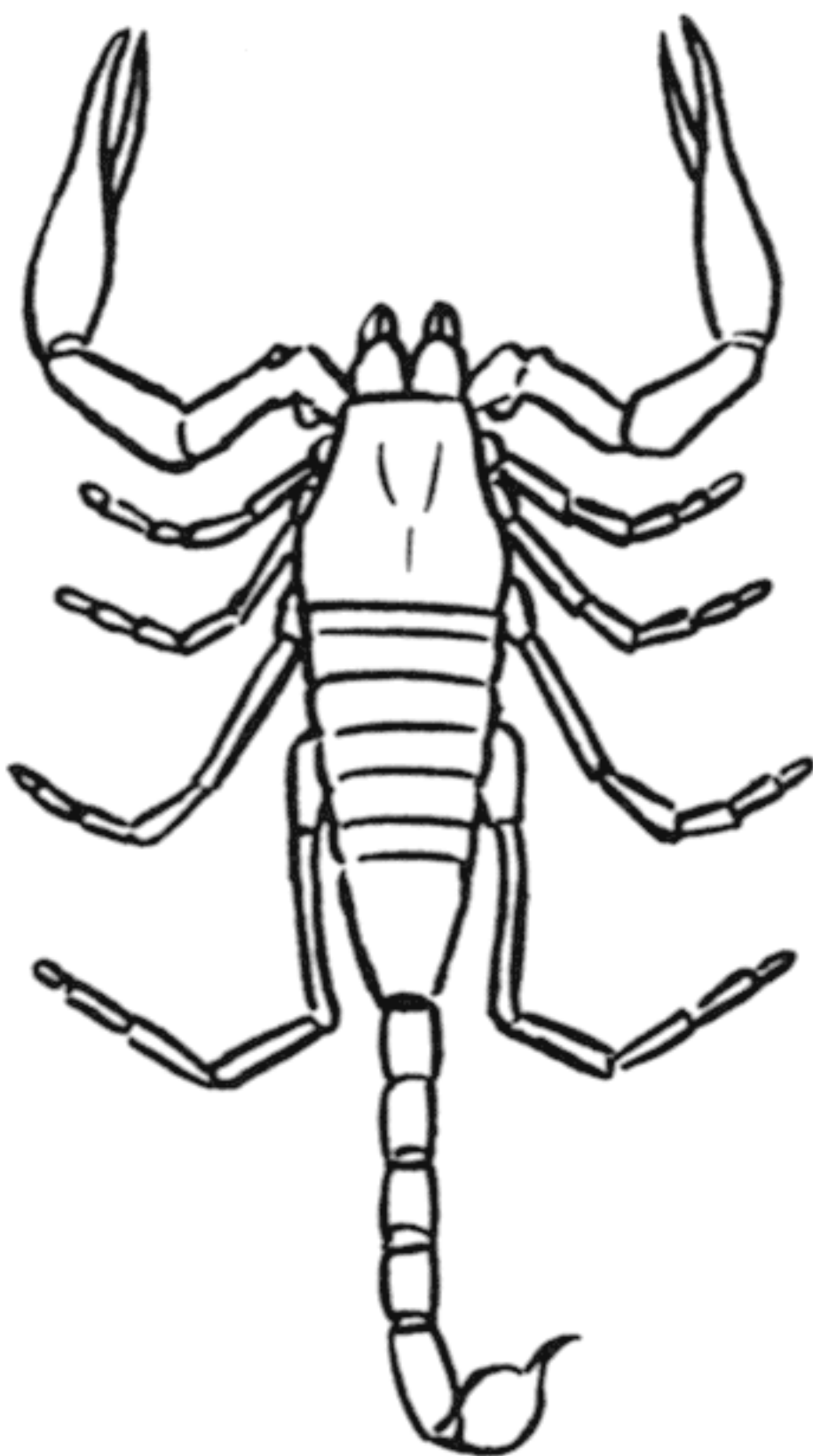
Pincer



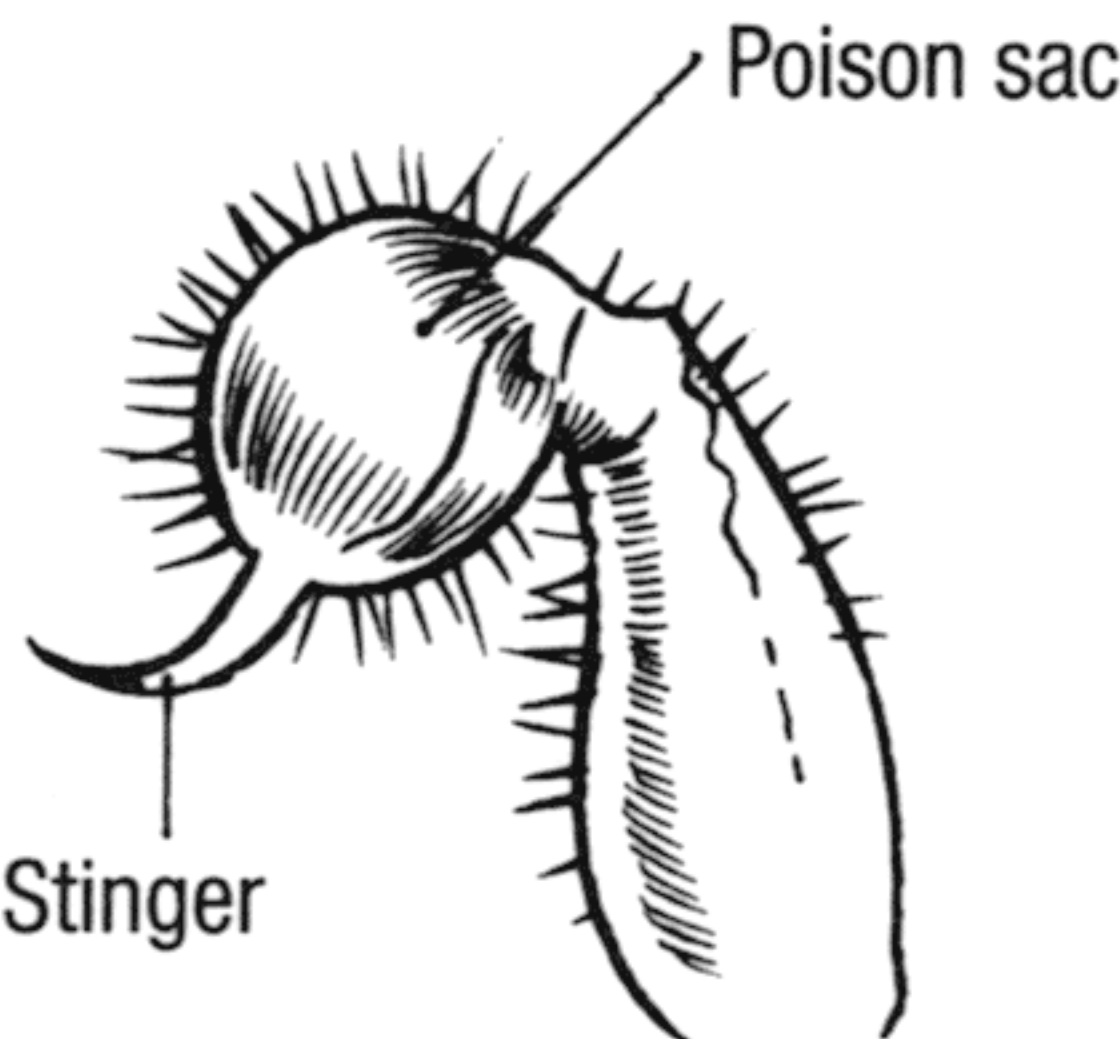
Leg



# Scorpions

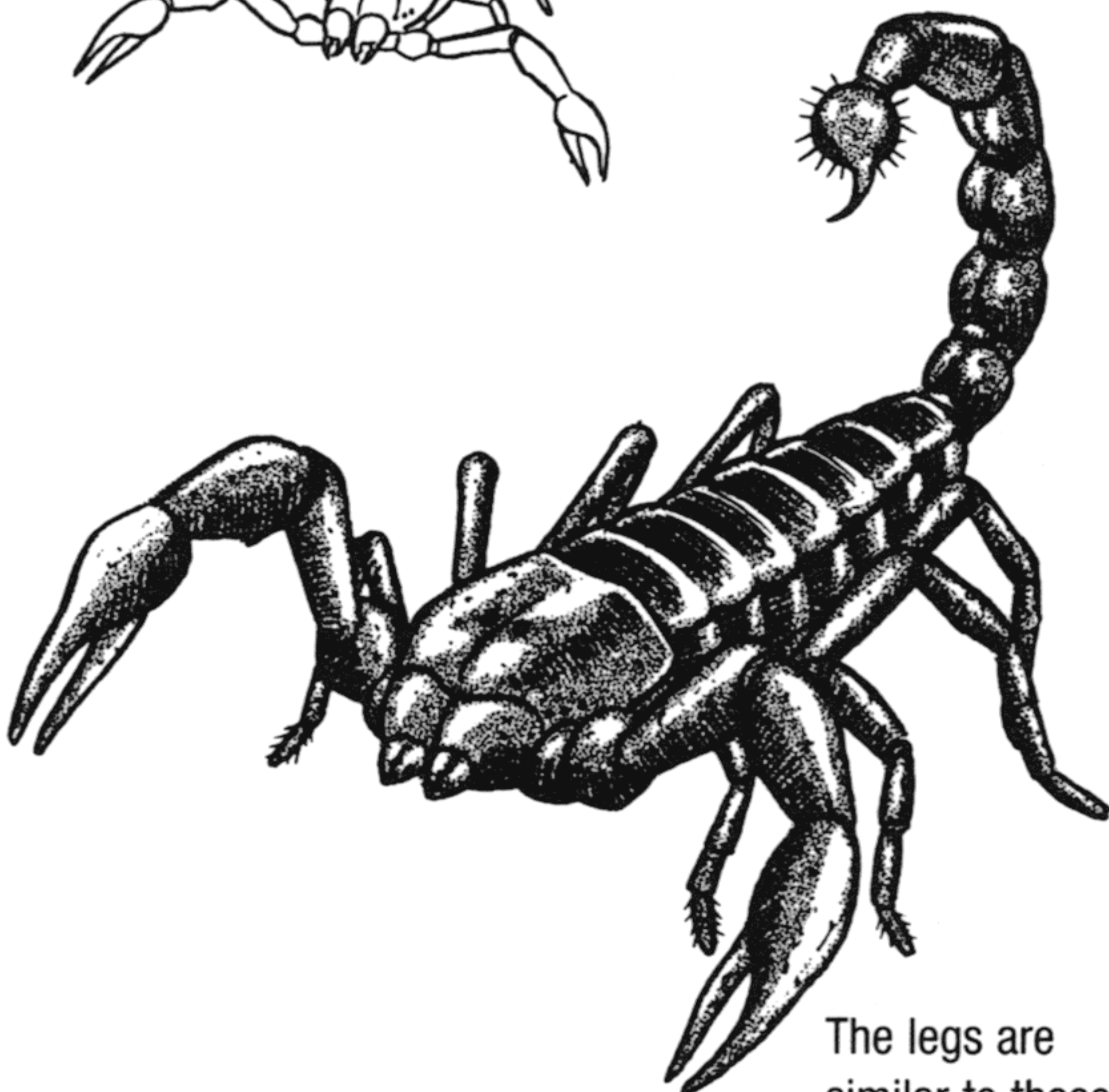


The tail has six joints.



Stinger

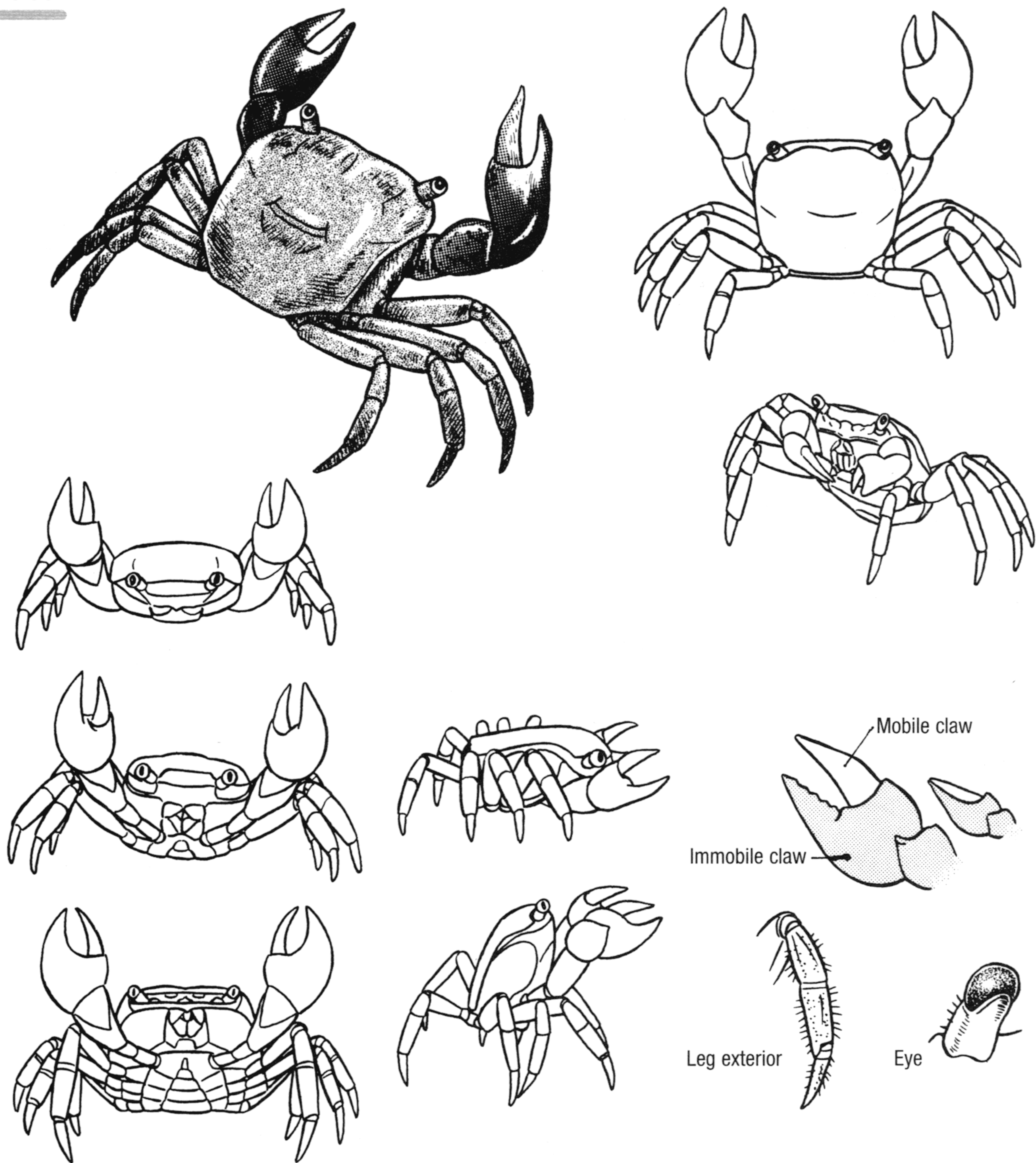
Poison sac



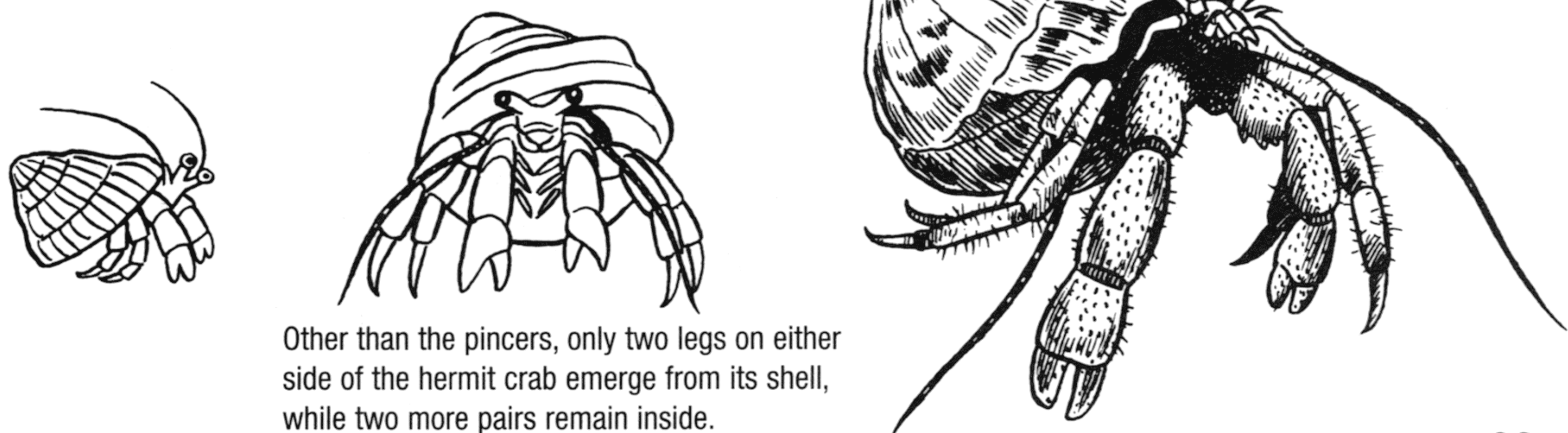
The legs are similar to those of a spider.



Crabs



Hermit Crabs

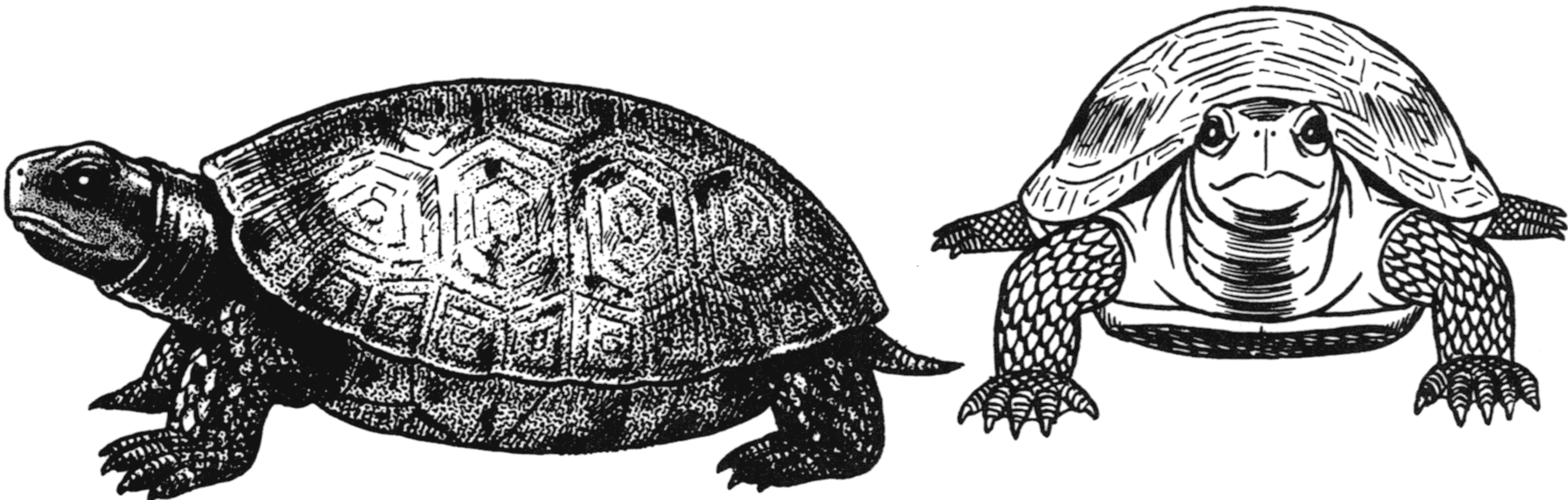


Other than the pincers, only two legs on either side of the hermit crab emerge from its shell, while two more pairs remain inside.

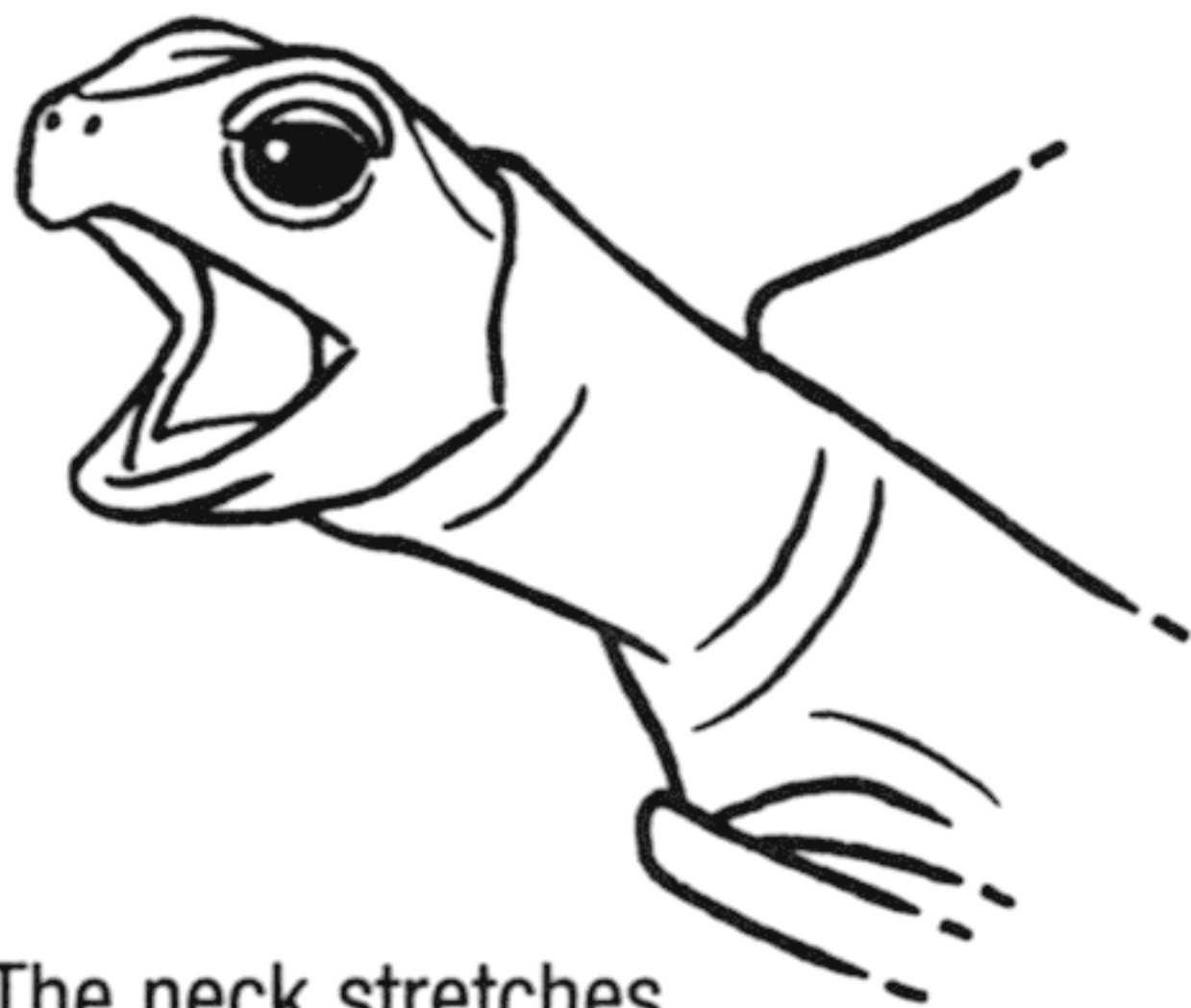


Turtles

Turtles' legs attach in the same manner as those of lizards and frogs.  
Conceive of the turtle as a lizard with a round head and a shell (carapace)



Elbow      Shoulder



The neck stretches about one-head length out of the shell.

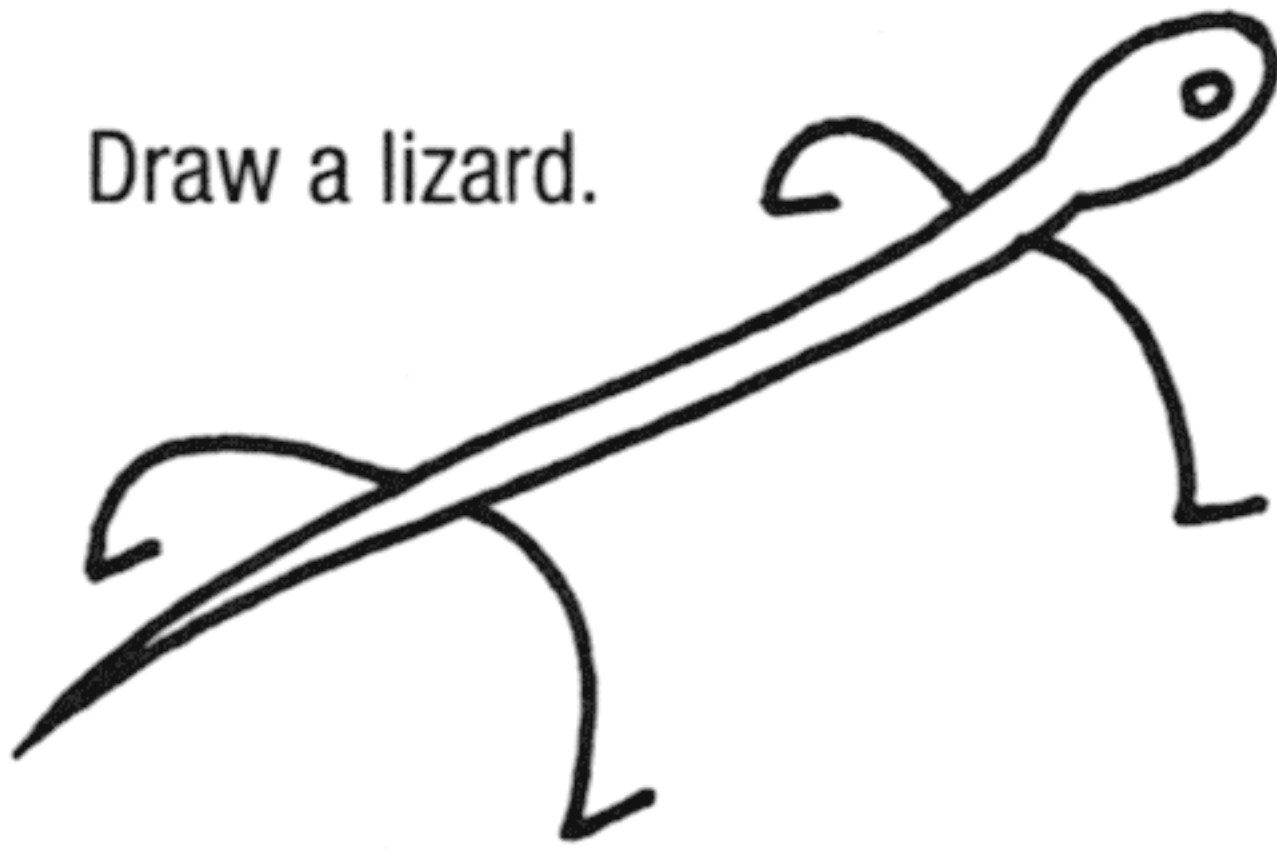


Turtle tucked into its shell (worm's eye view)

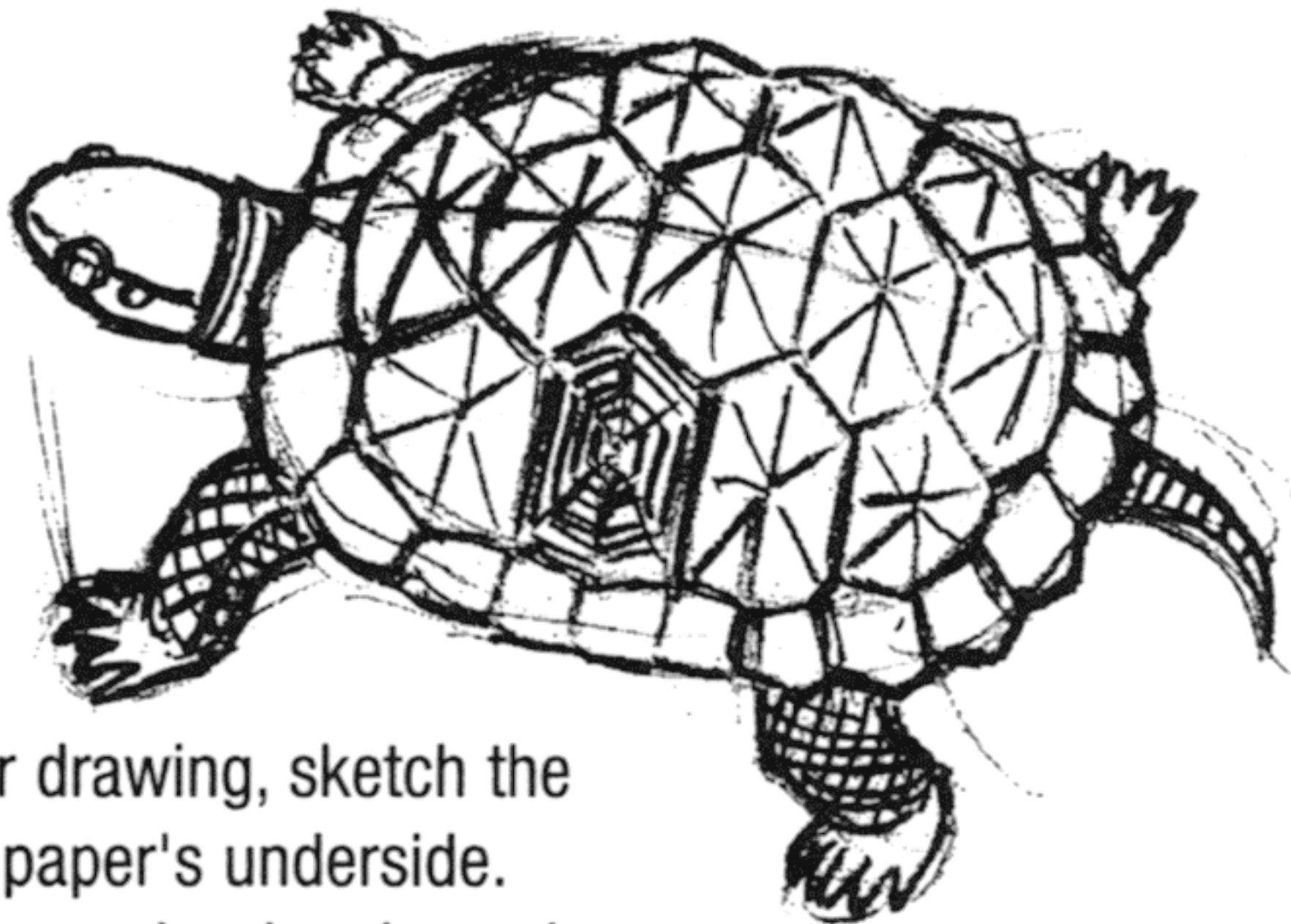
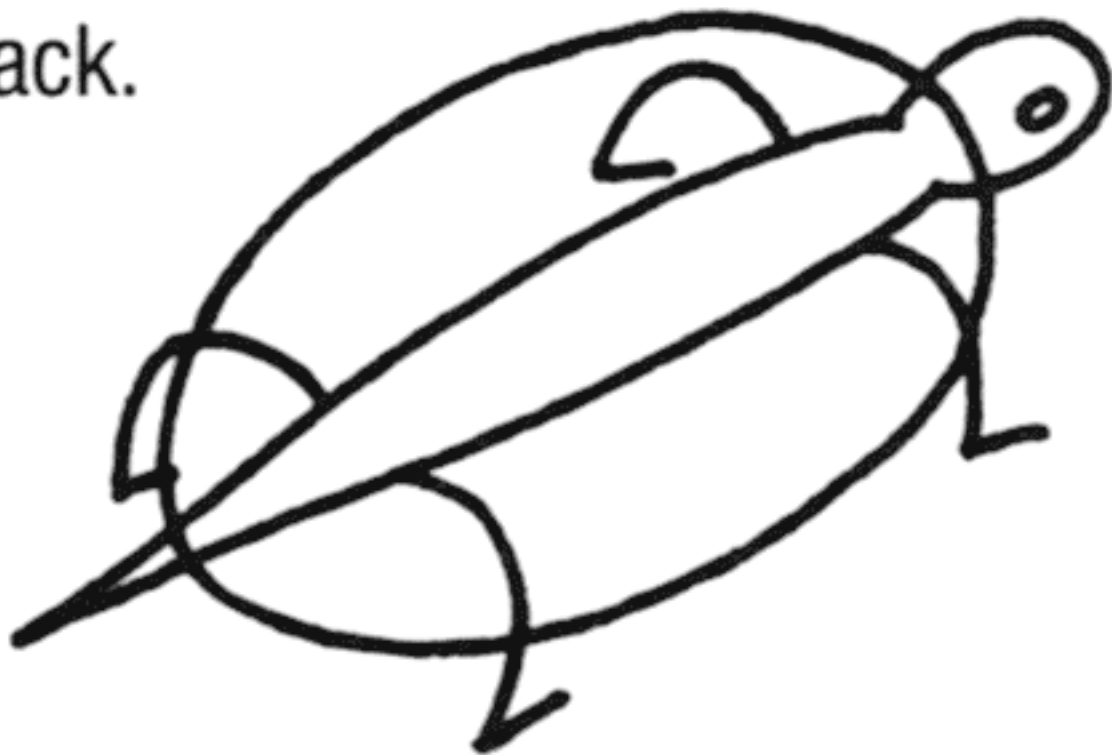


Turtle seen from overhead (bird's eye view)

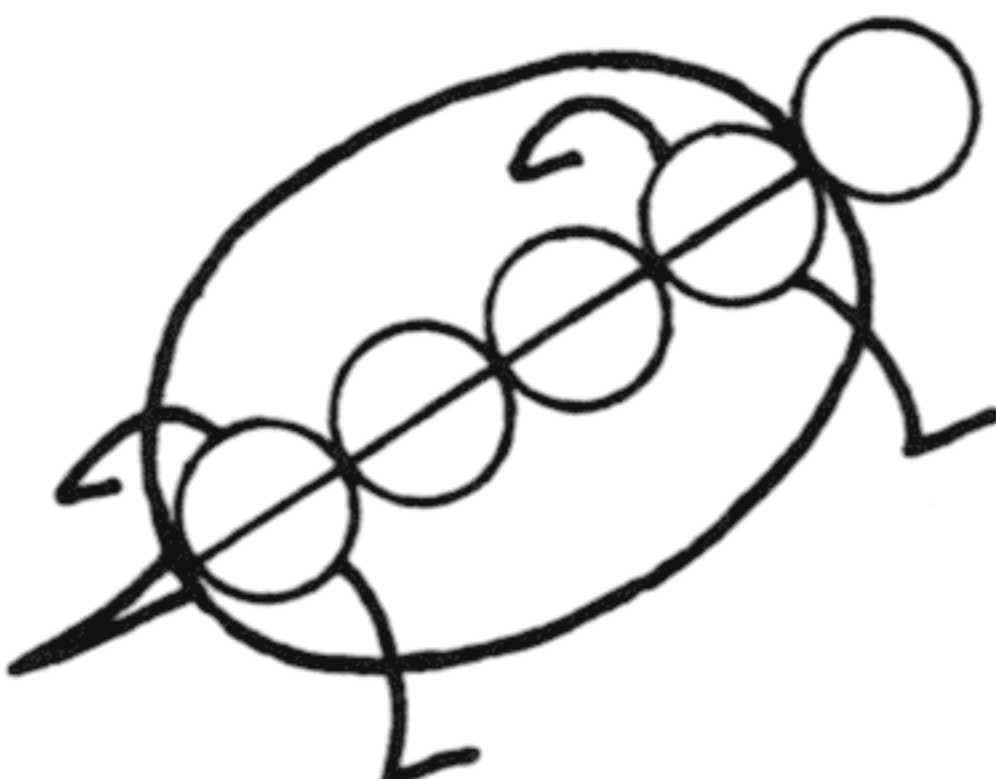
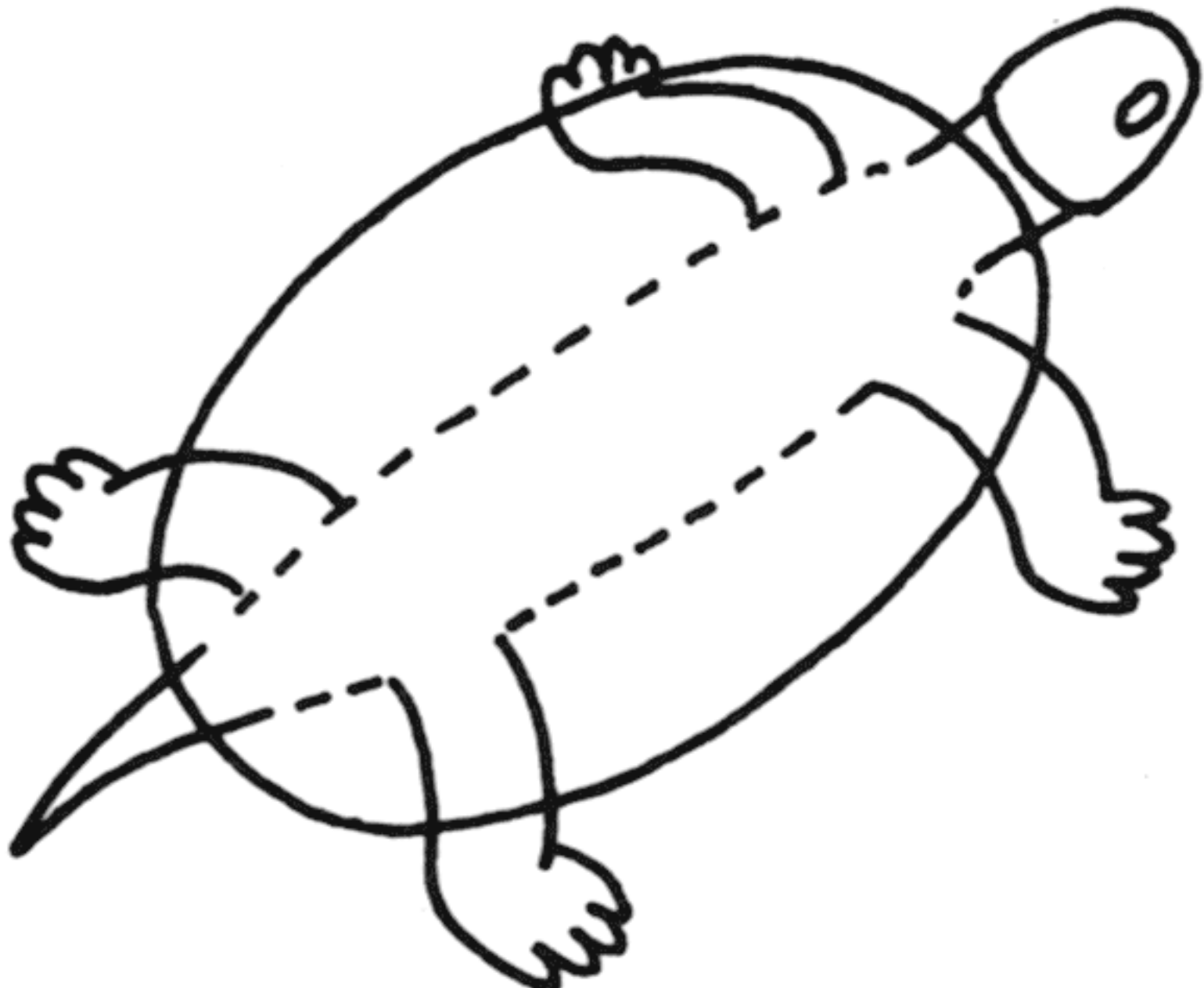
Draw a lizard.



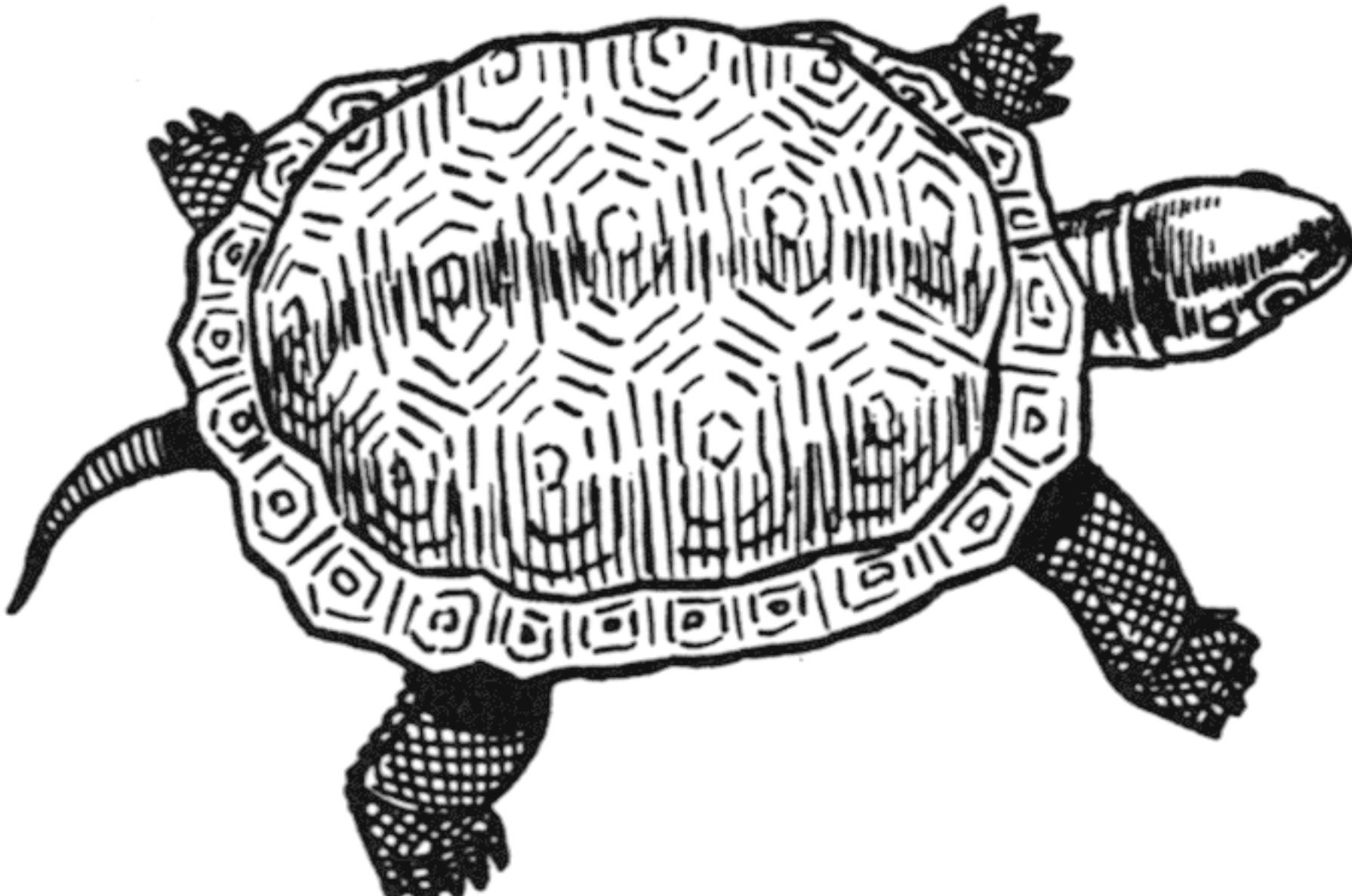
Add a carapace to its back.



For the under drawing, sketch the turtle on the paper's underside. Next, trace the under drawing using a light table, carefully filling in the details.



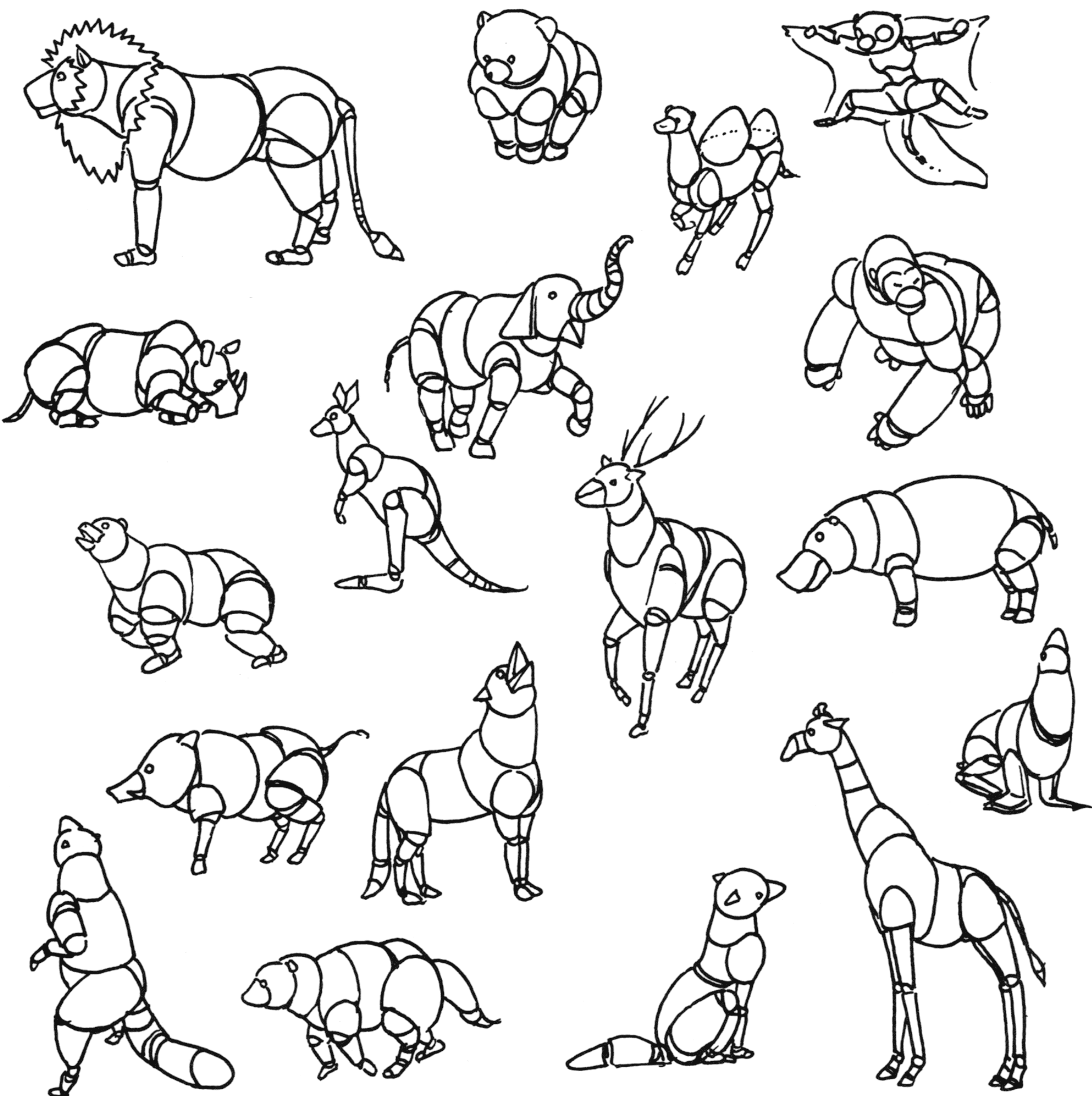
Correct proportioning:  
The carapace is four heads in length.





# Chapter 3

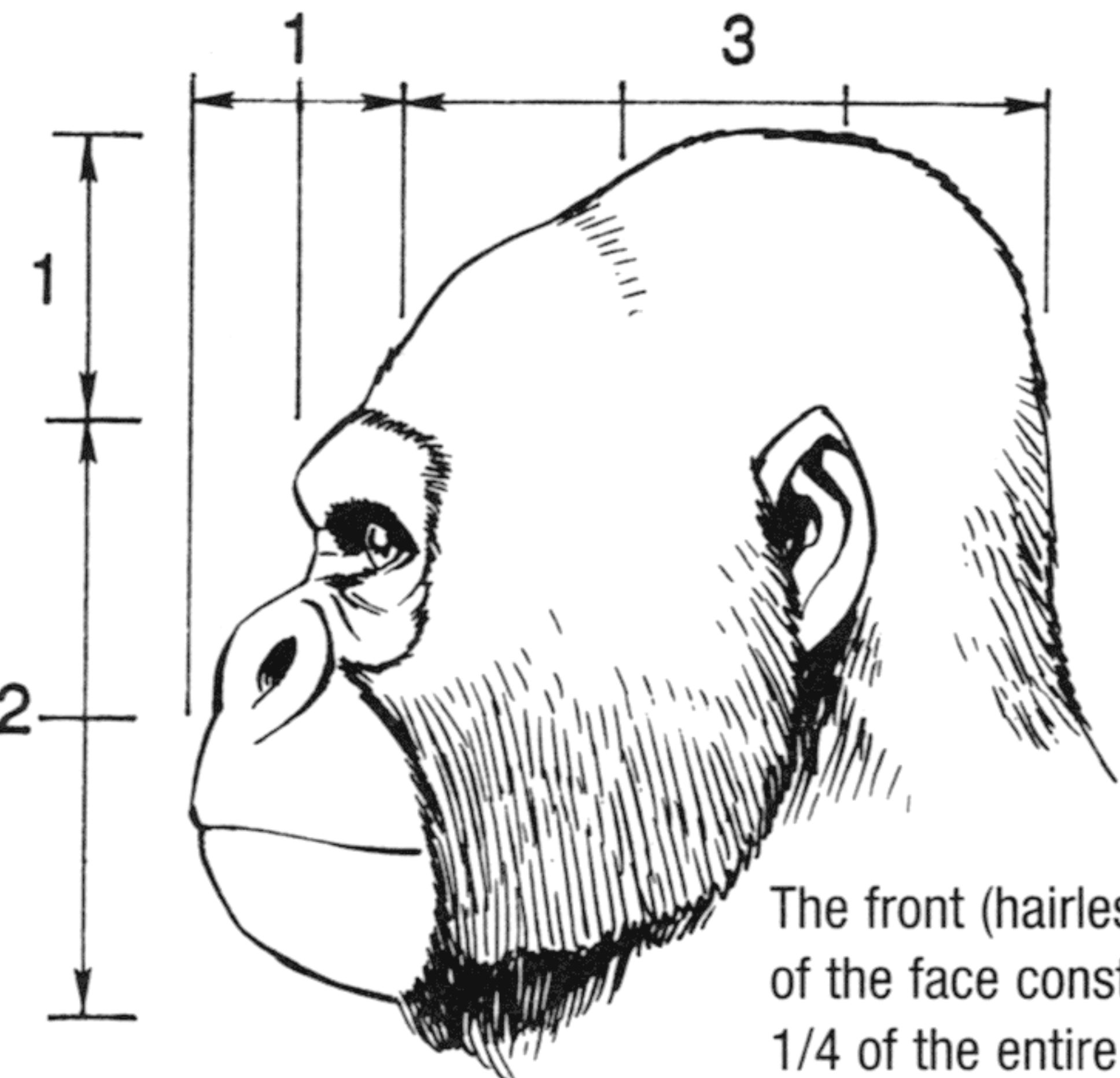
## Wild Animals



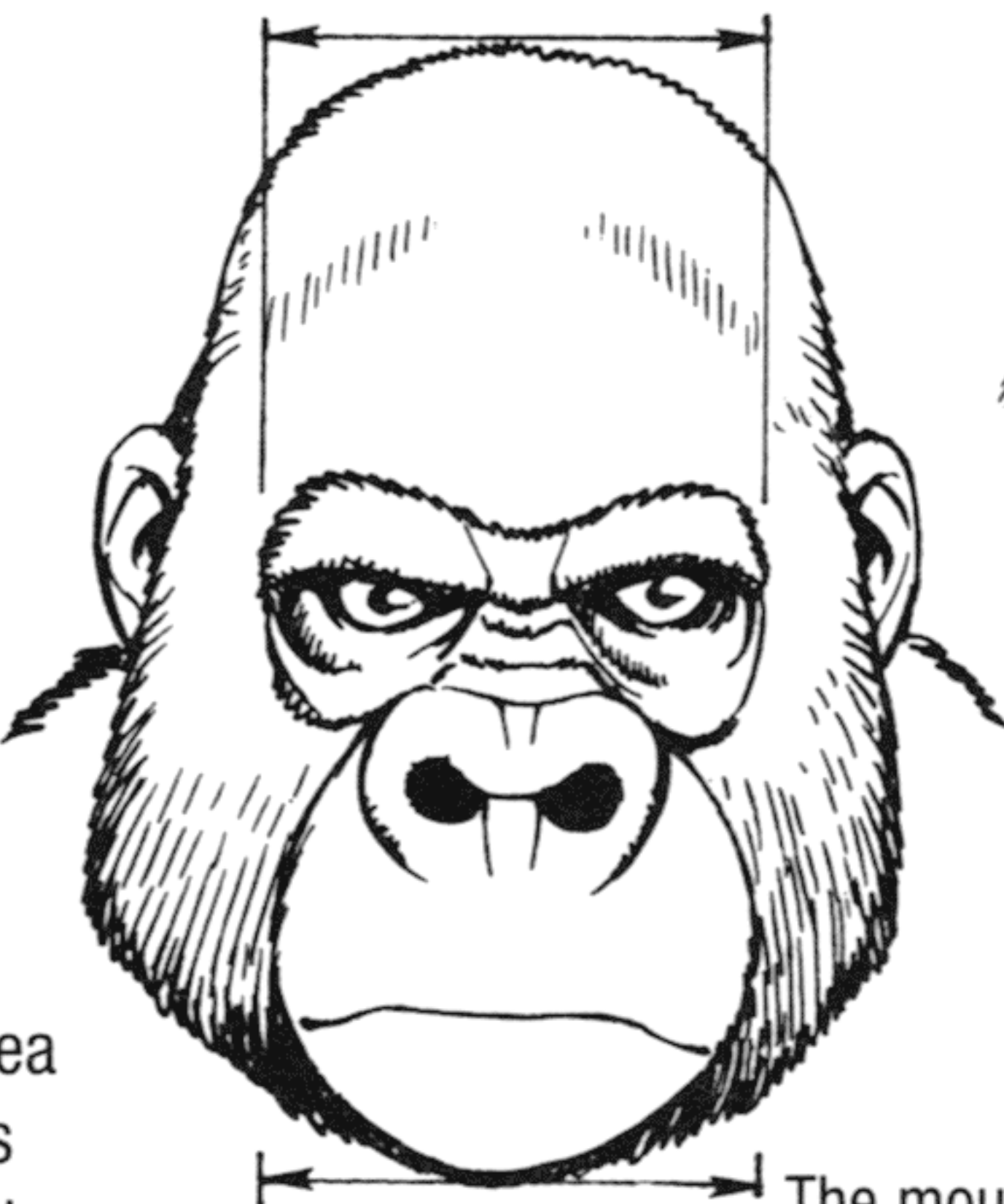


Gorillas

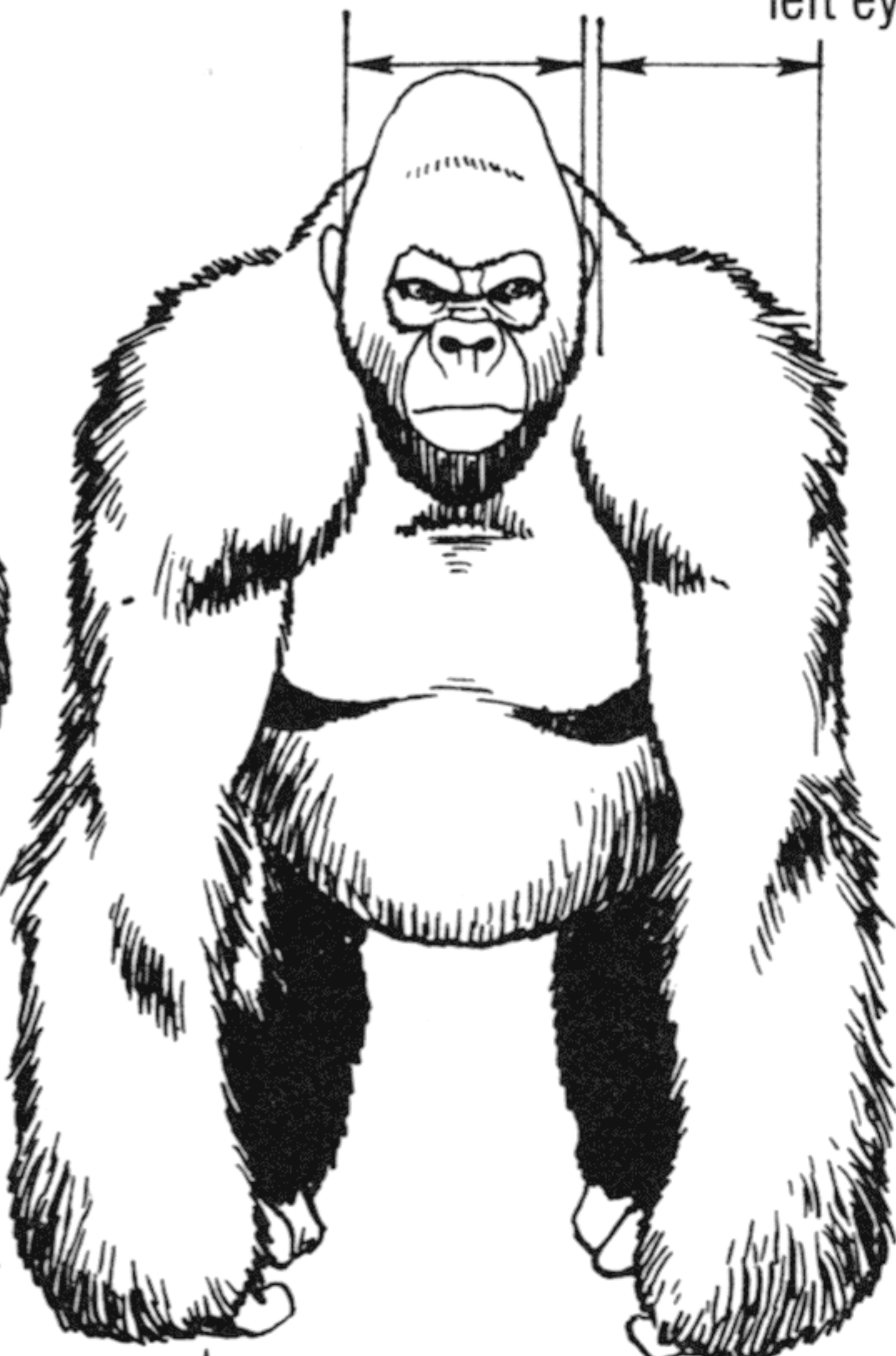
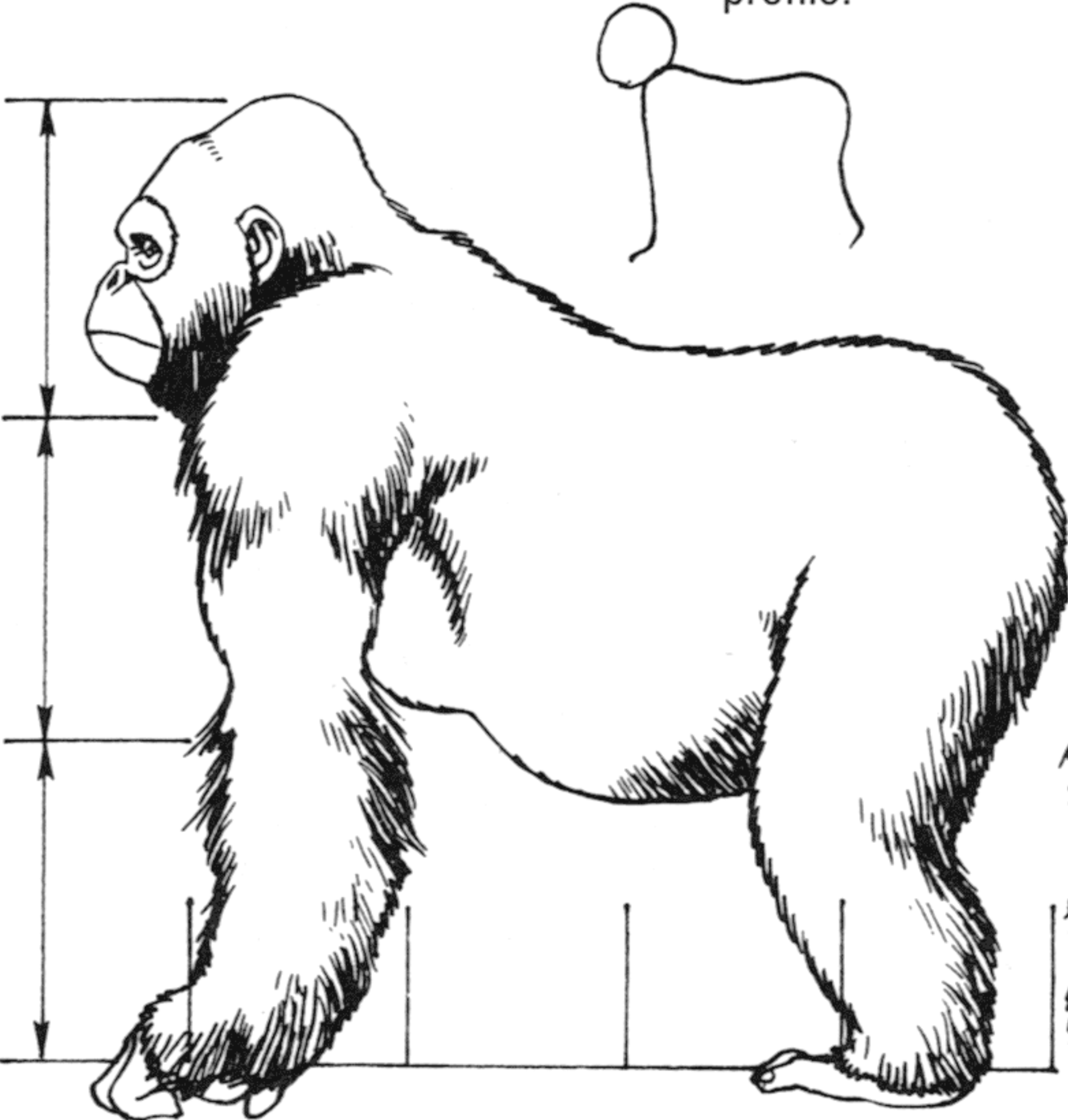
Make the area above the gorilla's brow, the forehead, expansive. Give the gorilla strong, bulging shoulders. The neck is incorporated within the trunk and is typically not very visible.



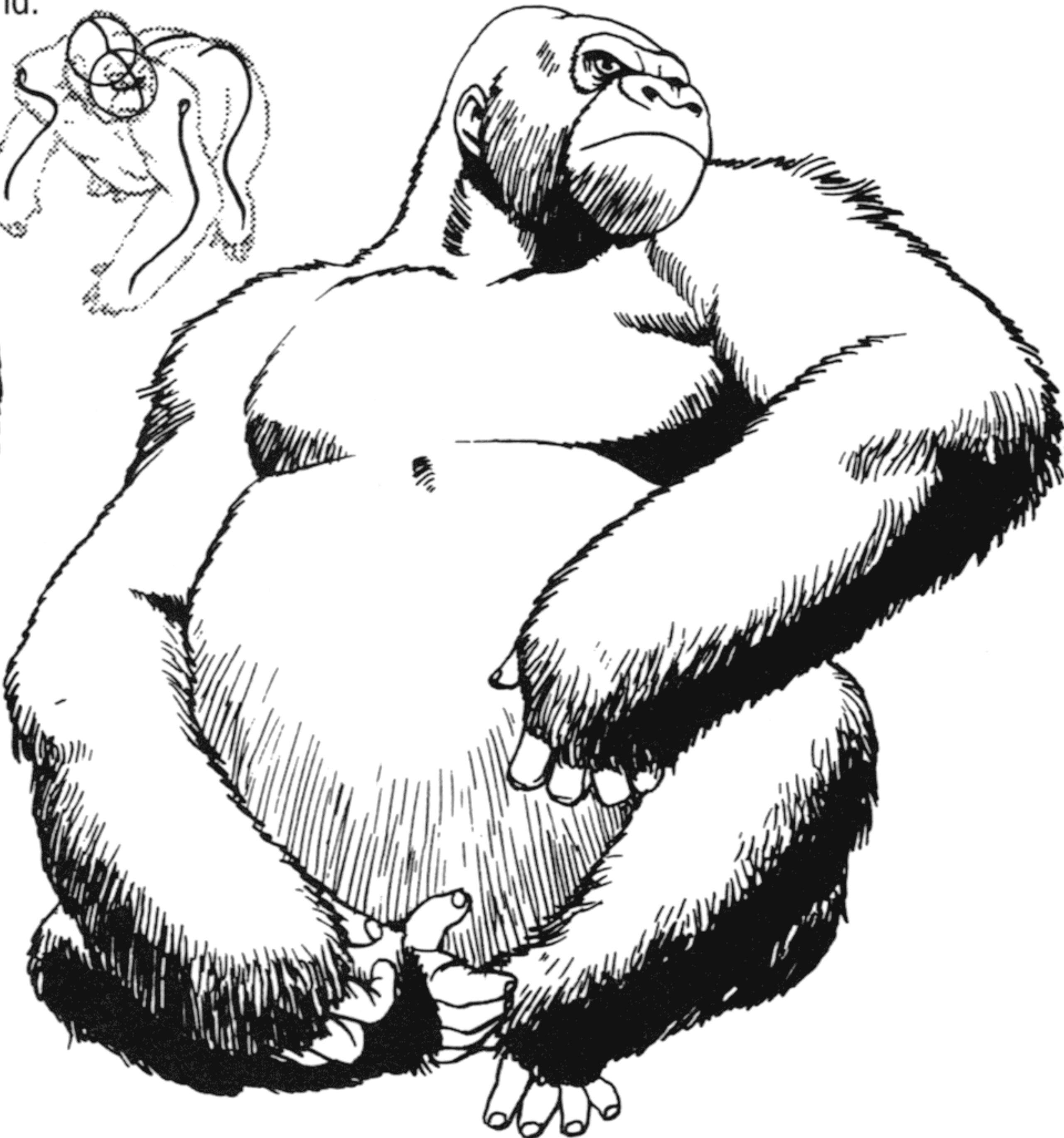
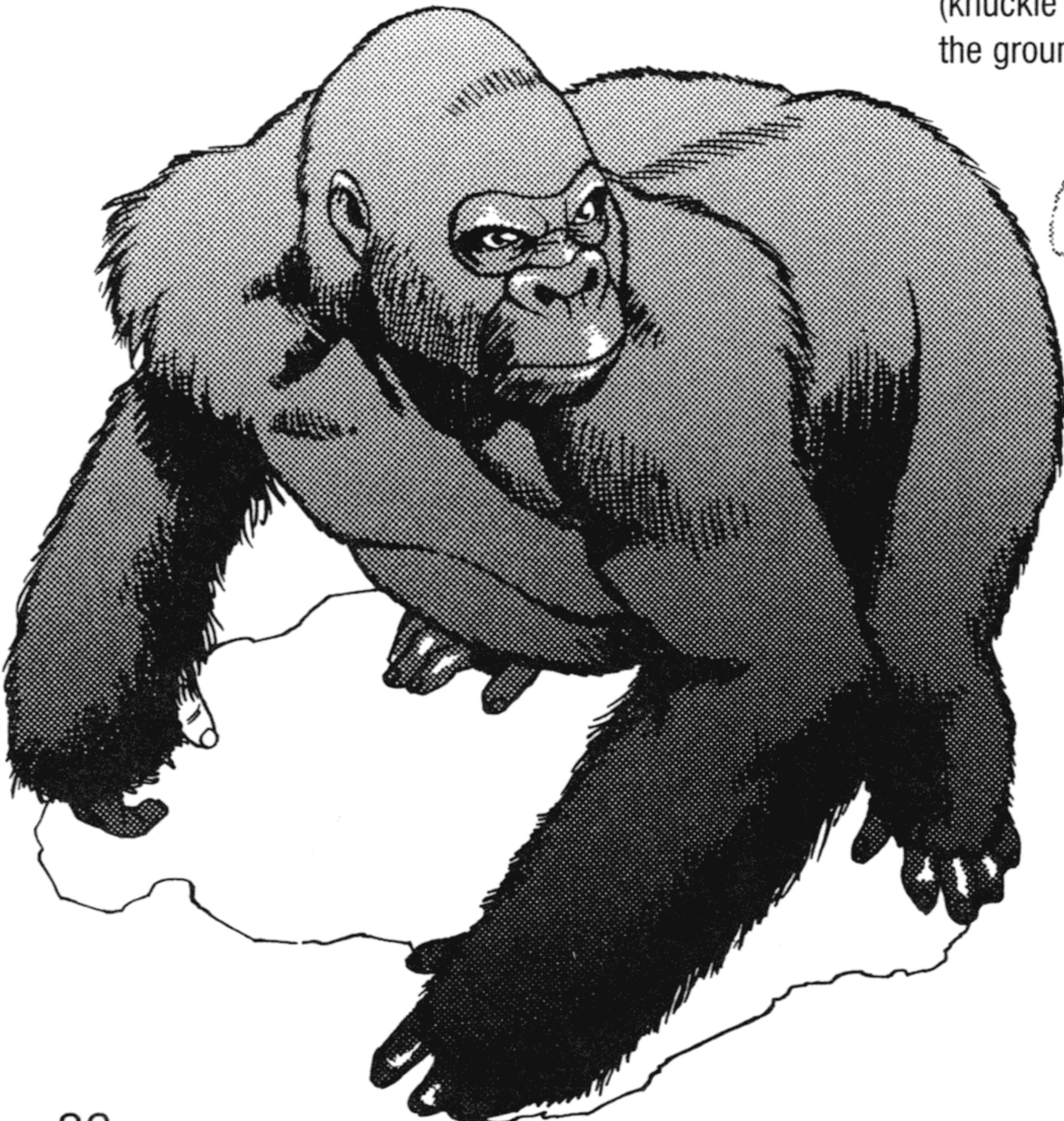
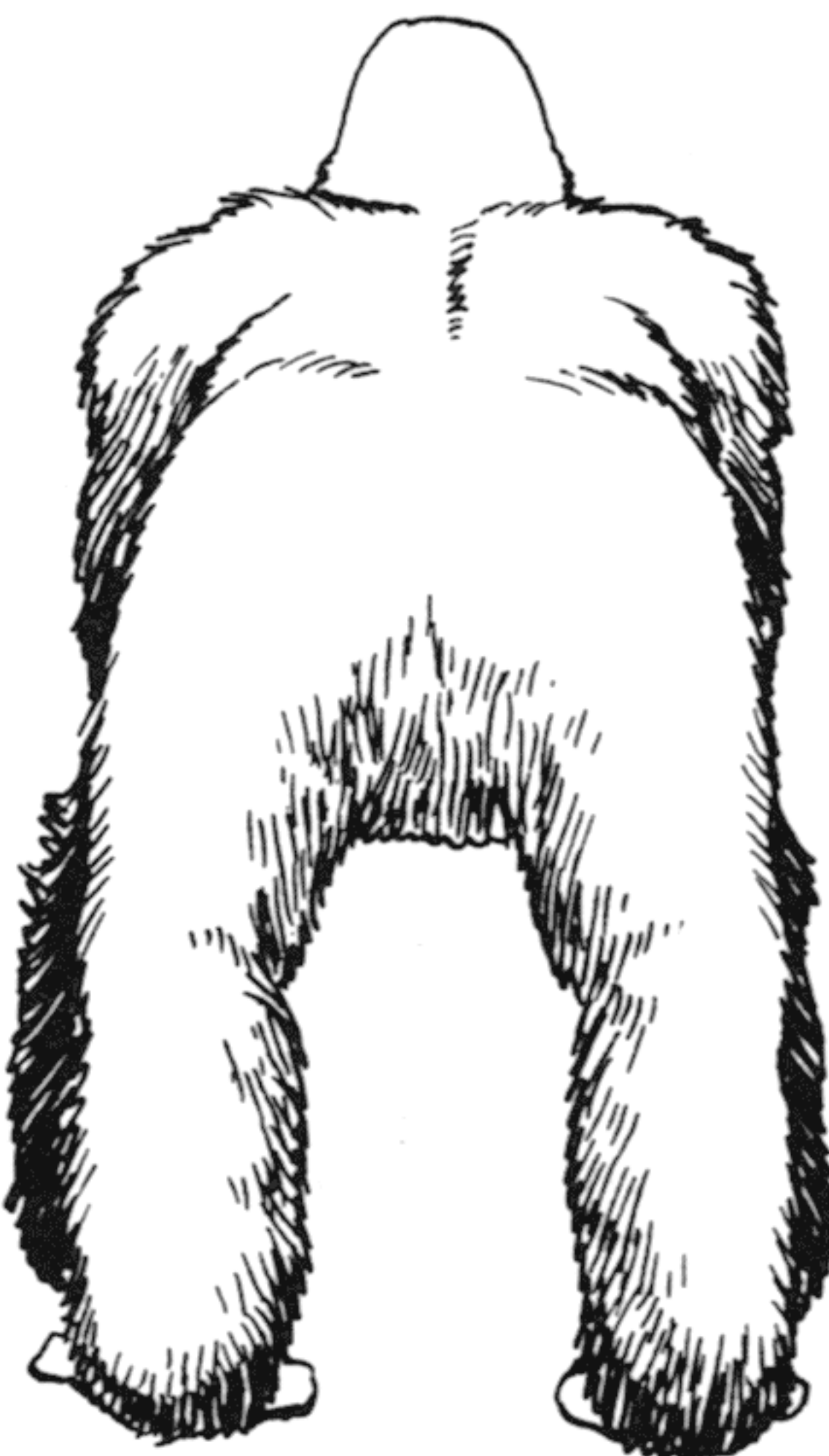
The front (hairless) area of the face constitutes 1/4 of the entire face in profile.



The mouth is the same width as the distance from the tip of the left eye to the tip of the right.



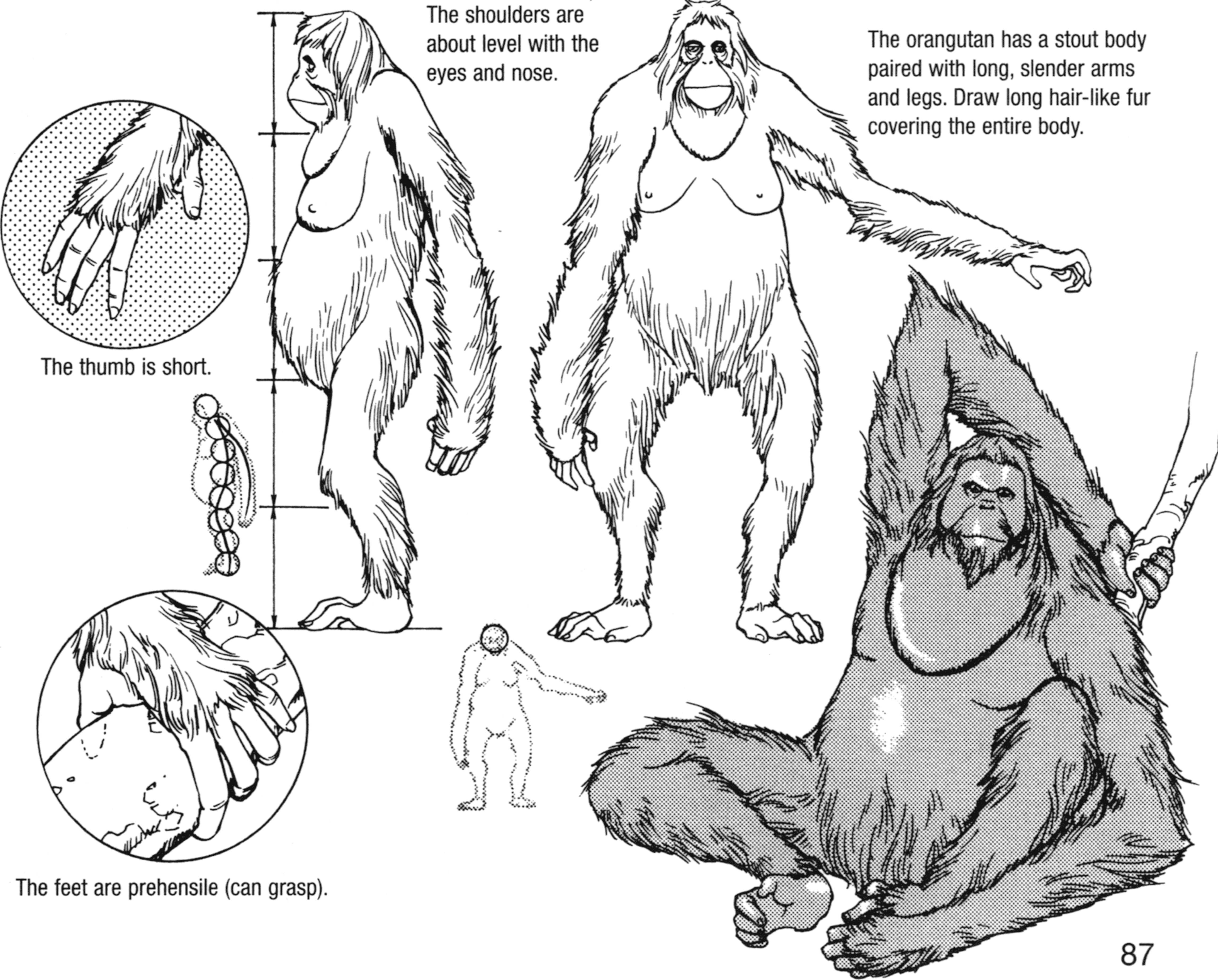
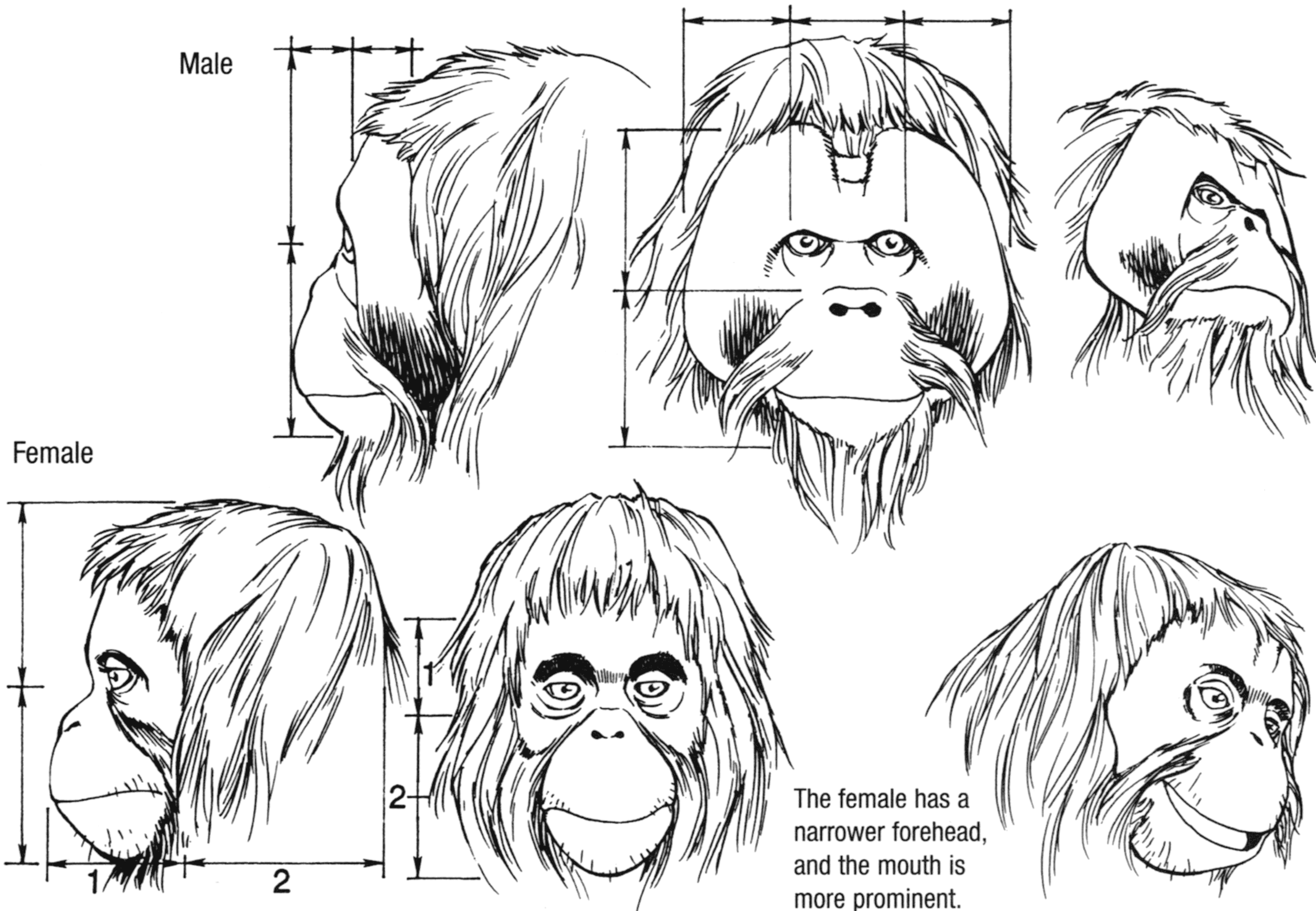
The top of the hand (knuckle side) touches the ground.





Orangutans

Give the male orangutan a largish head and cheek pads about as wide as the distance the eyes are space apart.

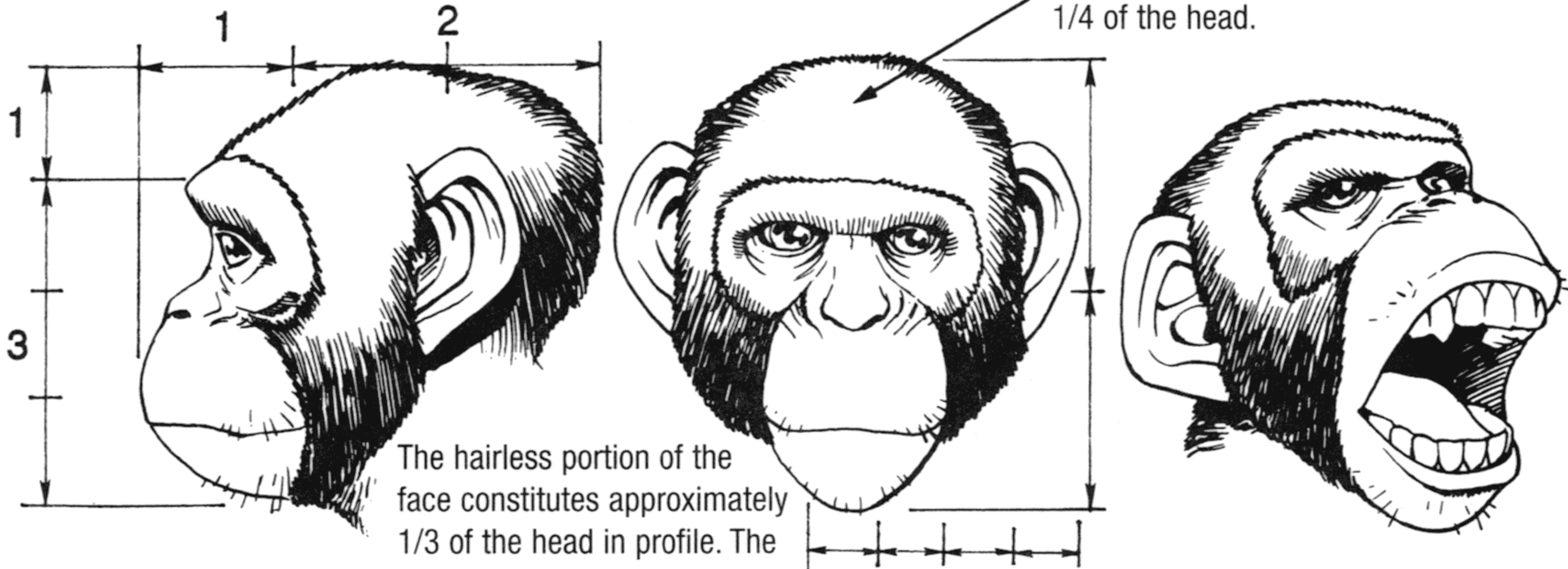




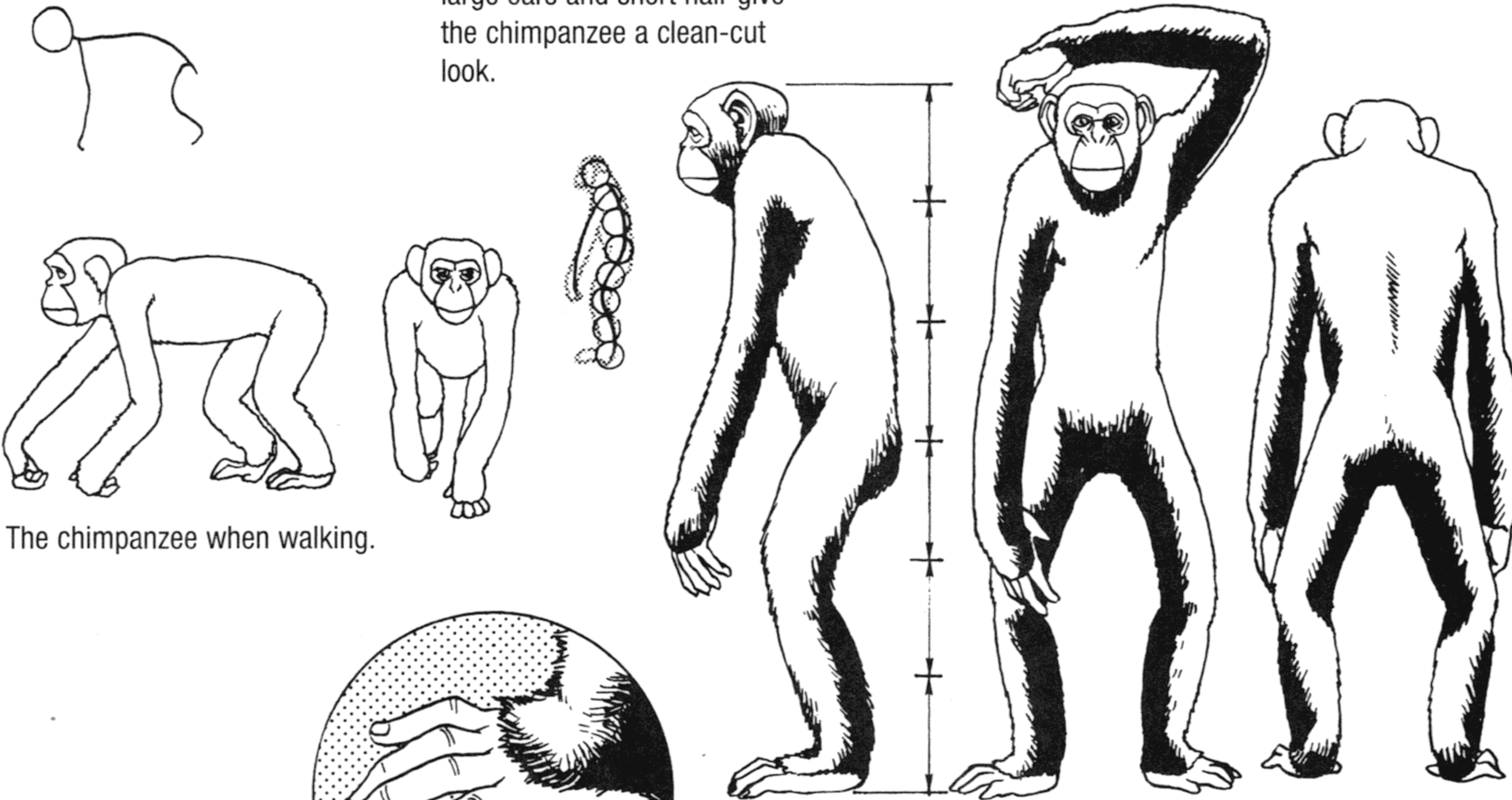
Chimpanzees

Chimpanzees' heads seem to rest immediately upon their shoulders. Draw them with slender hands and feet, long fingers and toes, and big ears.

The ears are approximately half the head in height. The hairy forehead occupies about 1/4 of the head.



The hairless portion of the face constitutes approximately 1/3 of the head in profile. The large ears and short hair give the chimpanzee a clean-cut look.



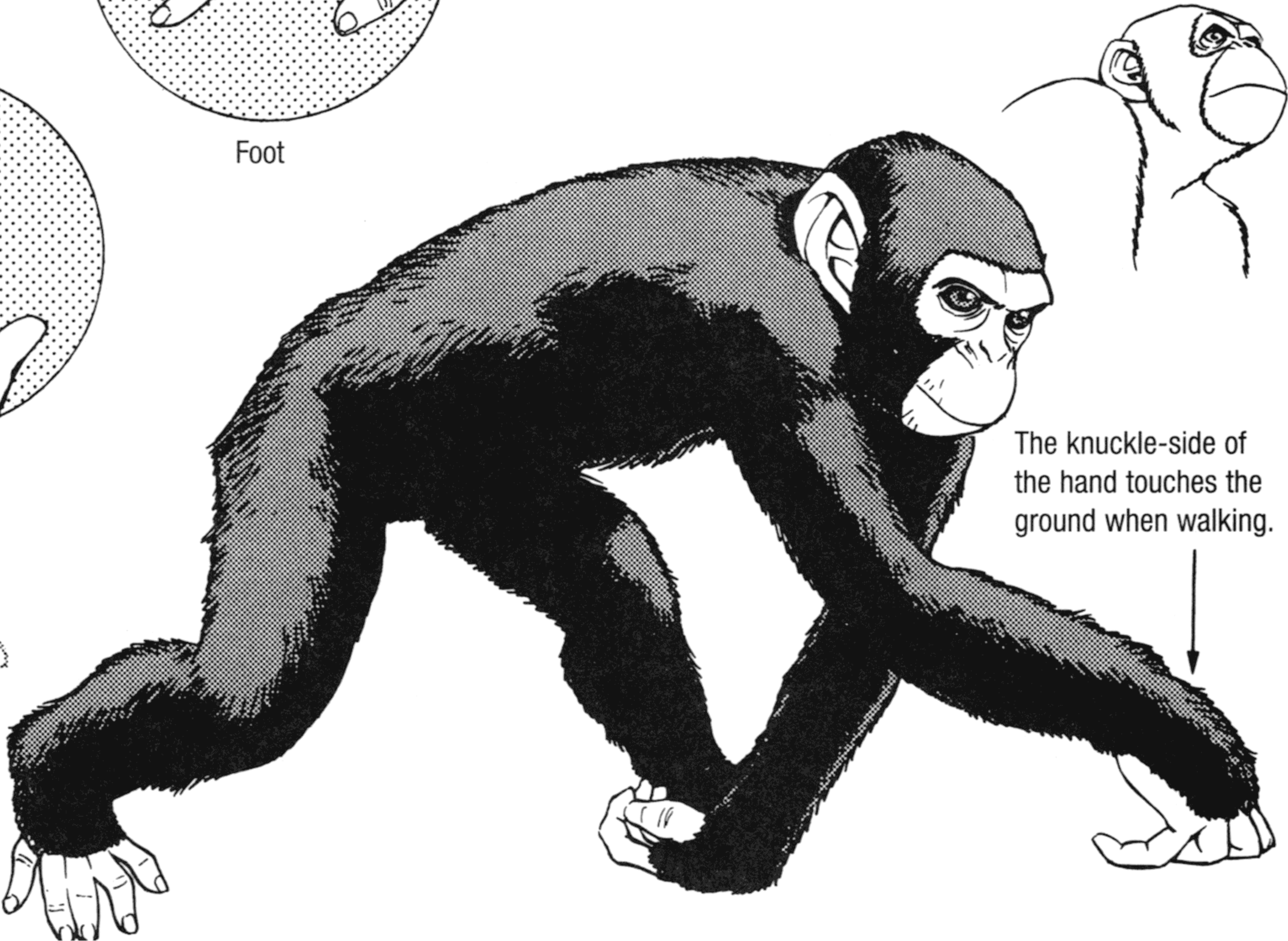
The chimpanzee when walking.



Foot



Hand



The knuckle-side of the hand touches the ground when walking.

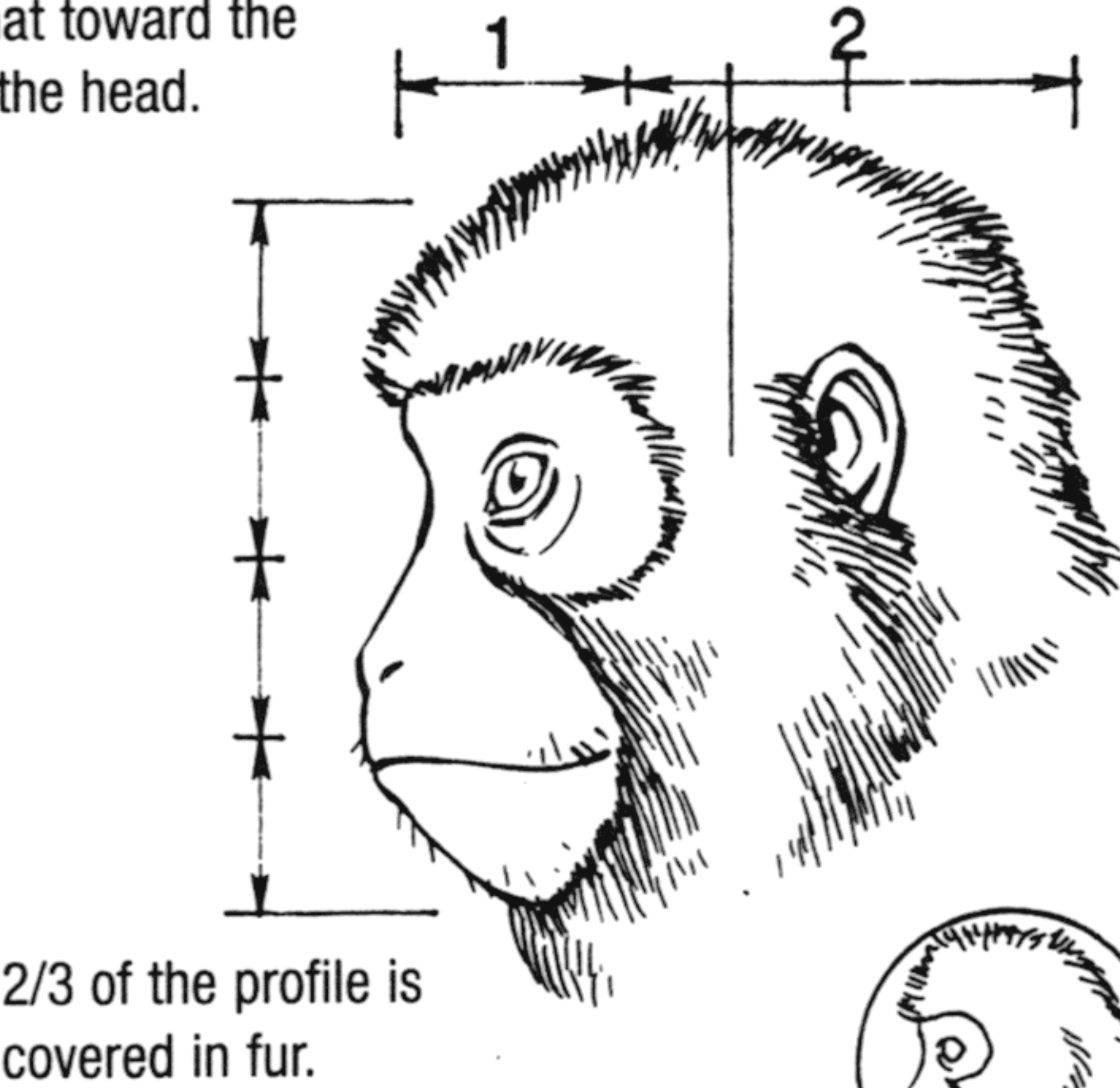


# Japanese Macaques

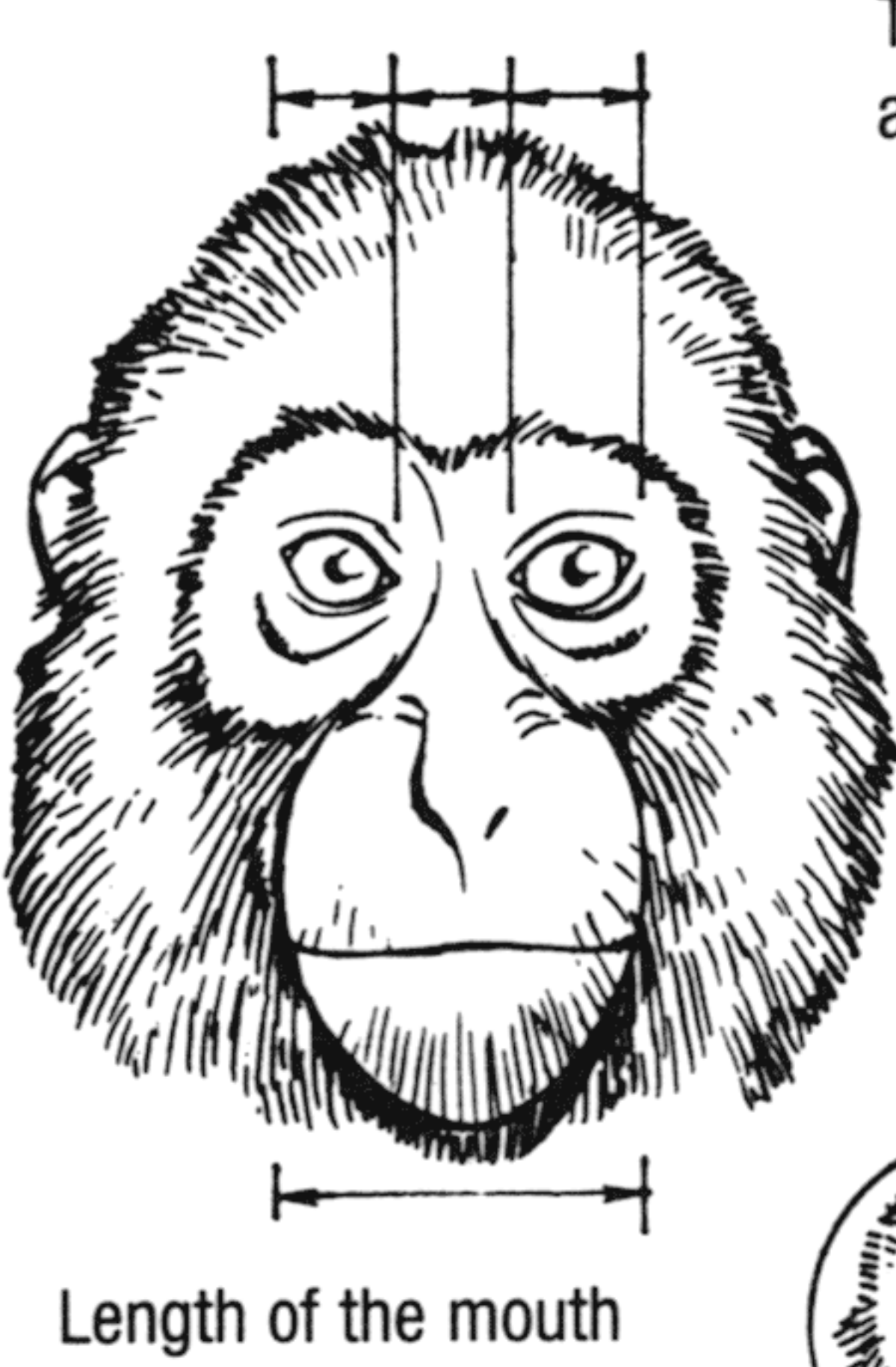
The Japanese macaque typically walks on all fours. Its ears are sometimes obscured from view by fur such as in the winter and other occasions (and should be omitted when drawing).

The ears are situated somewhat toward the back of the head.

The eyes are spaced approximately one eye apart.



2/3 of the profile is covered in fur.

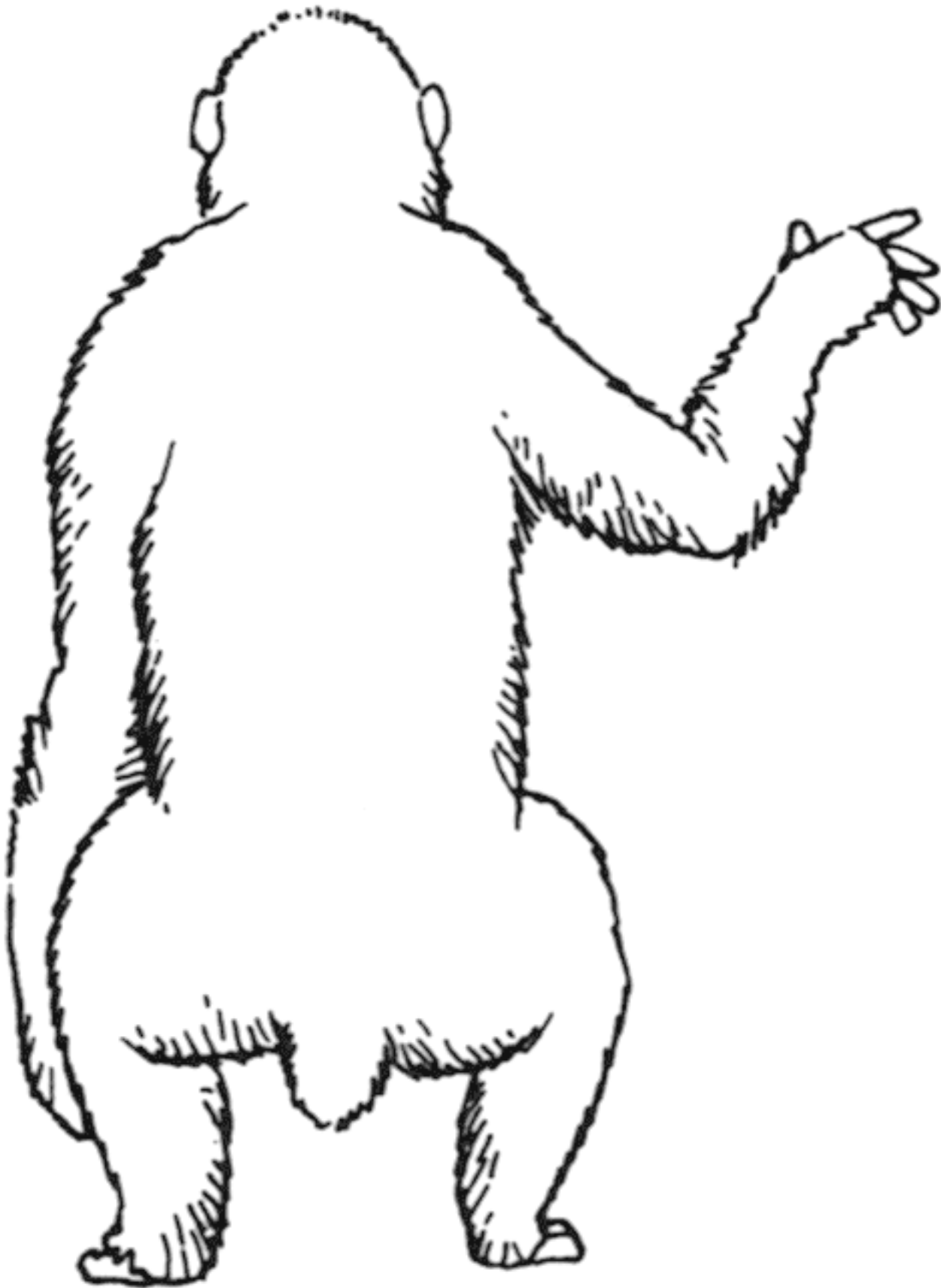
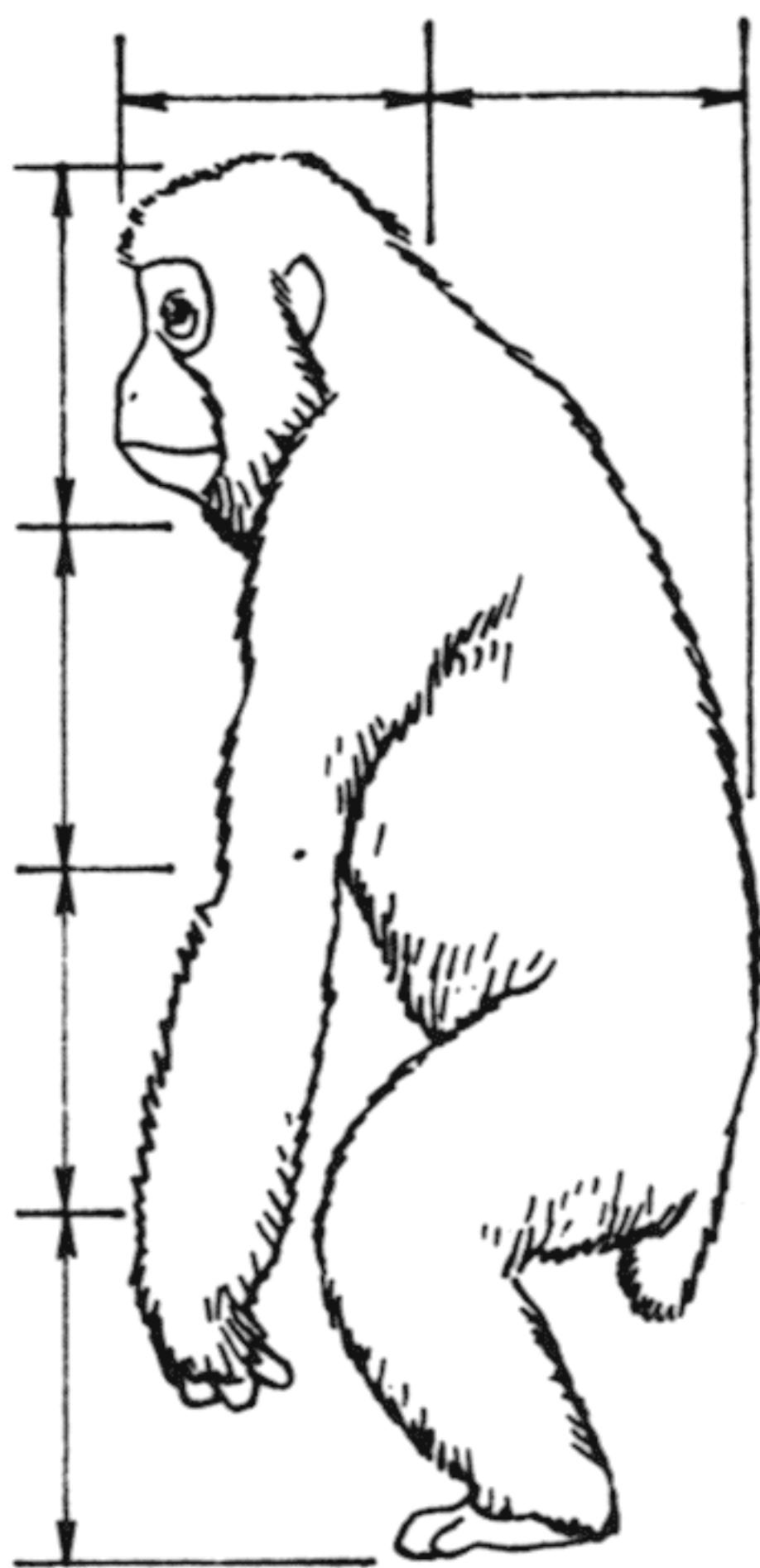
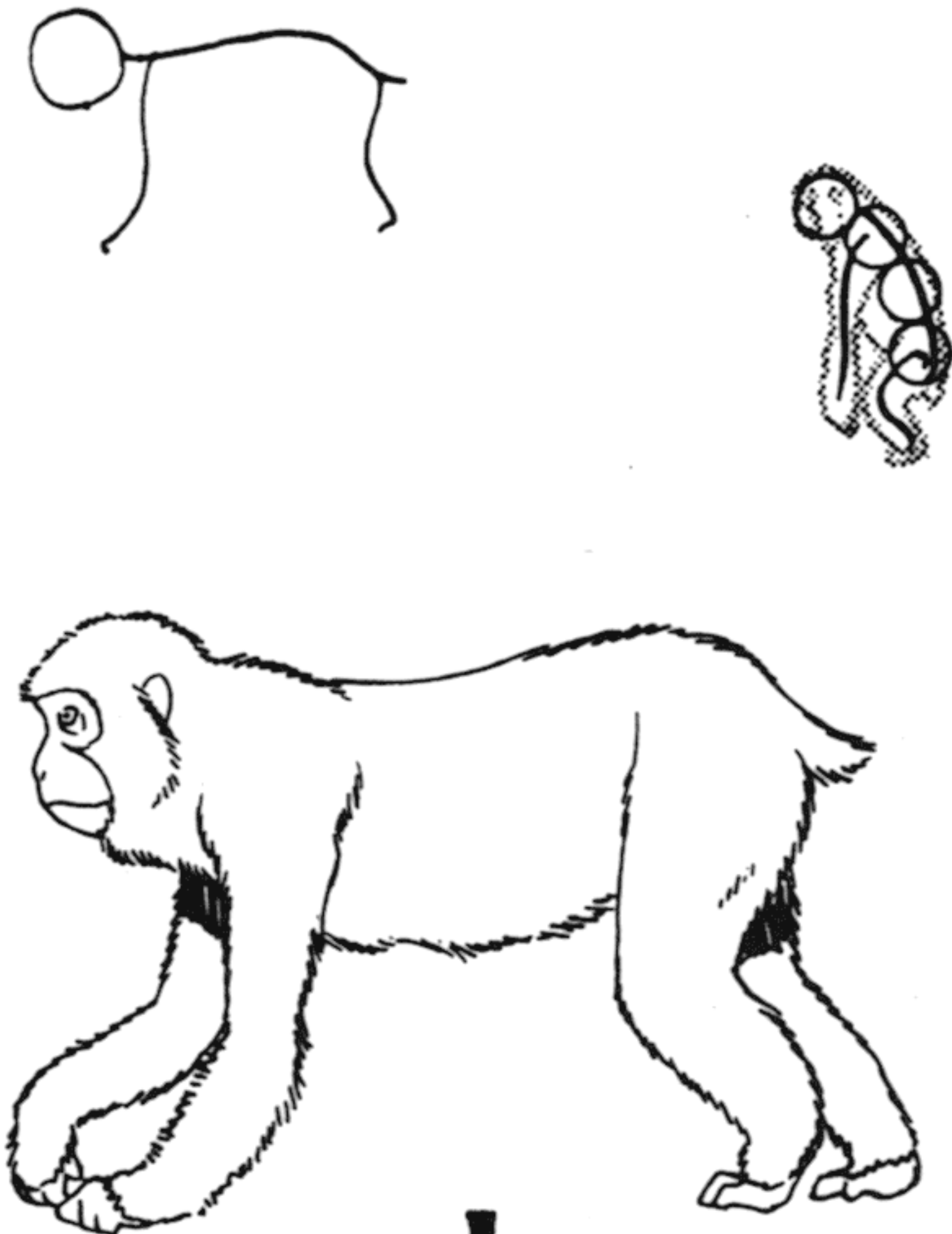


Length of the mouth

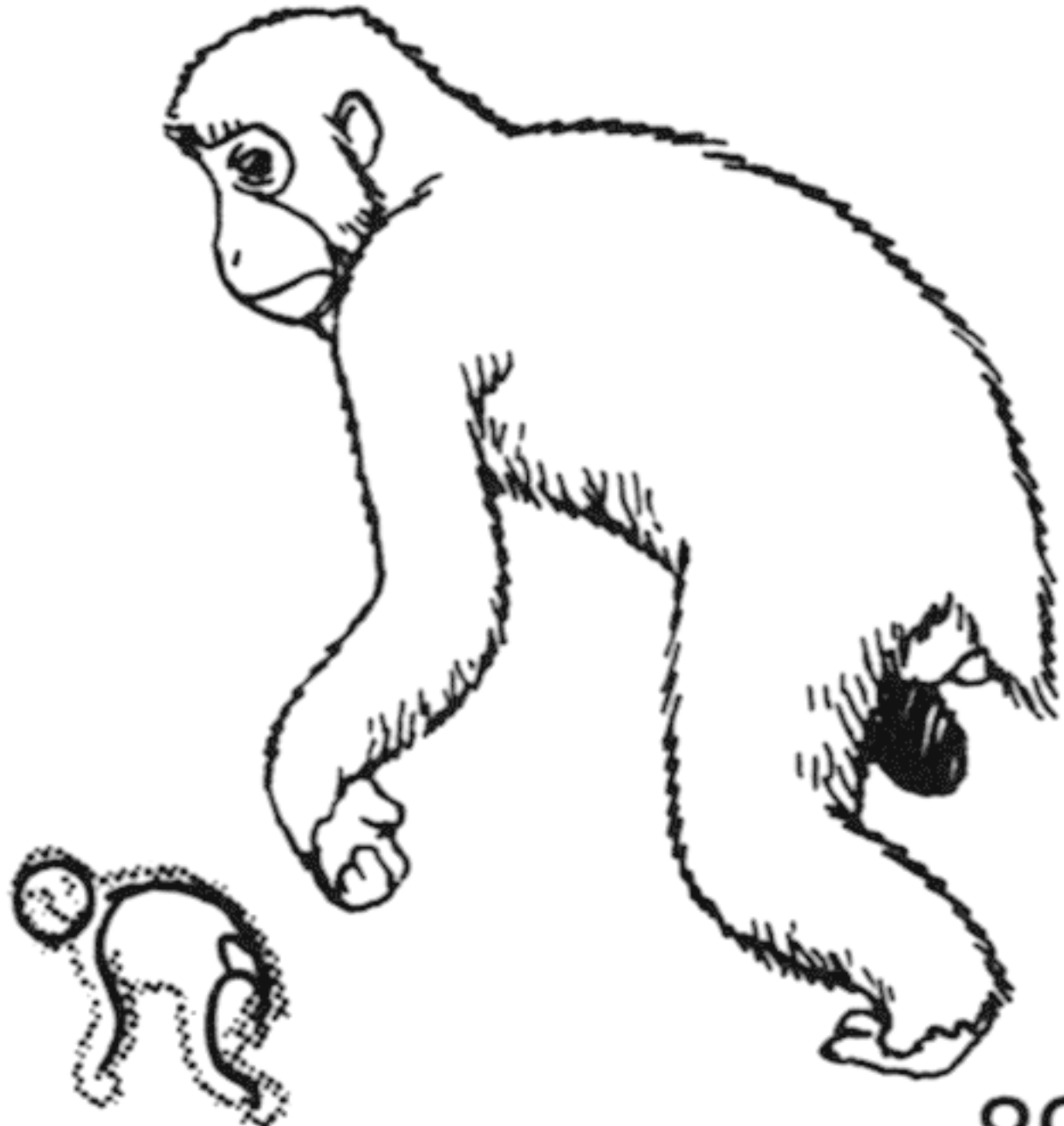
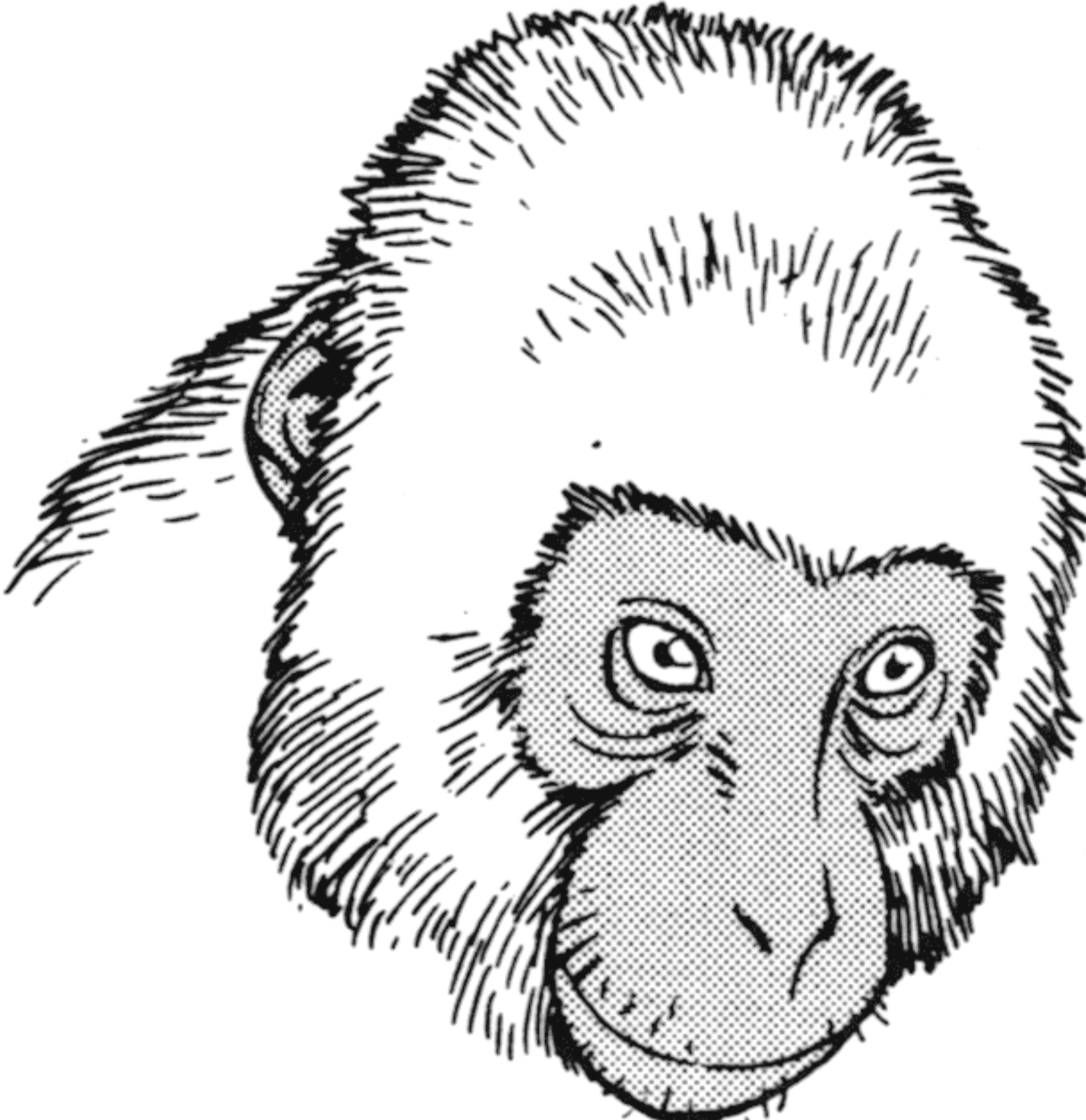
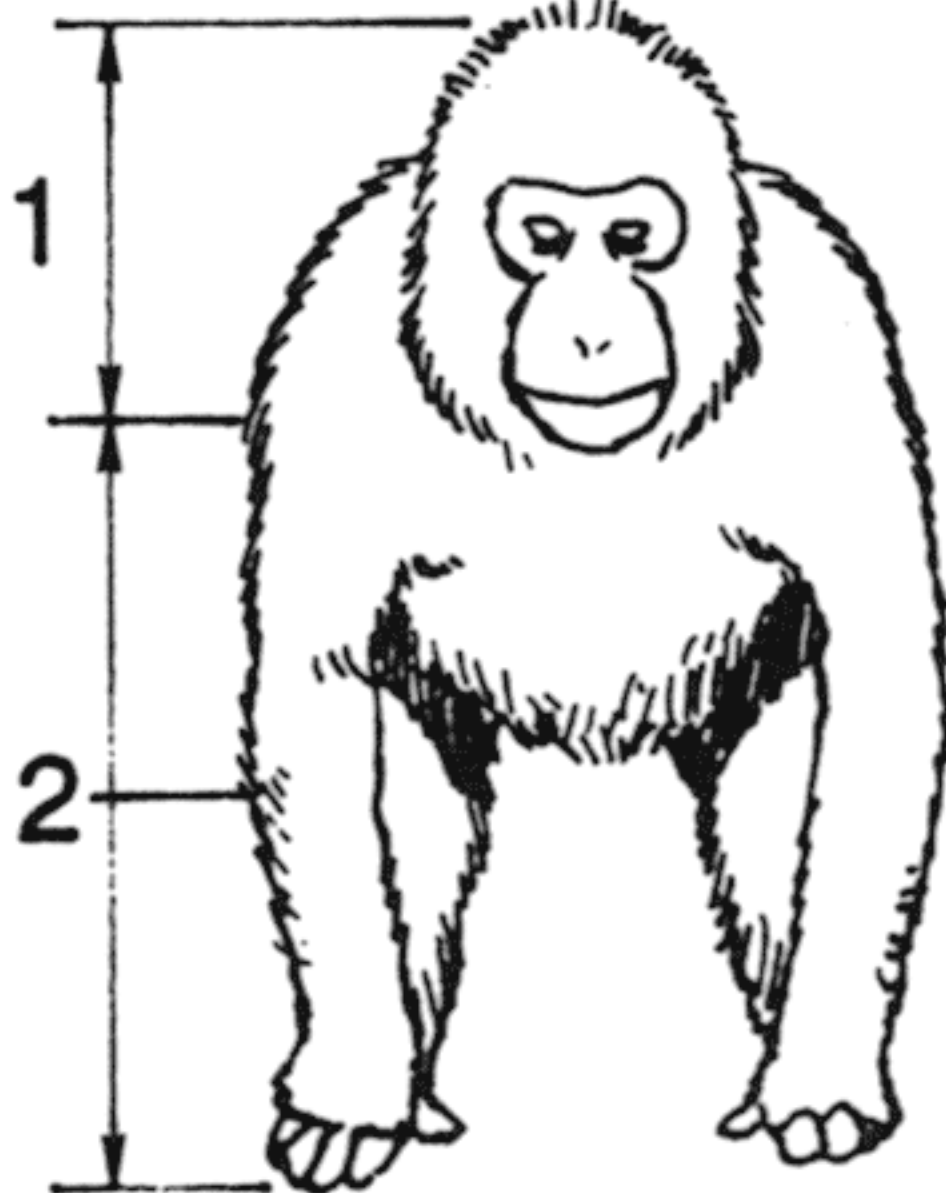


Japanese macaque with ears omitted

The Japanese macaque leans about one head-width forward.



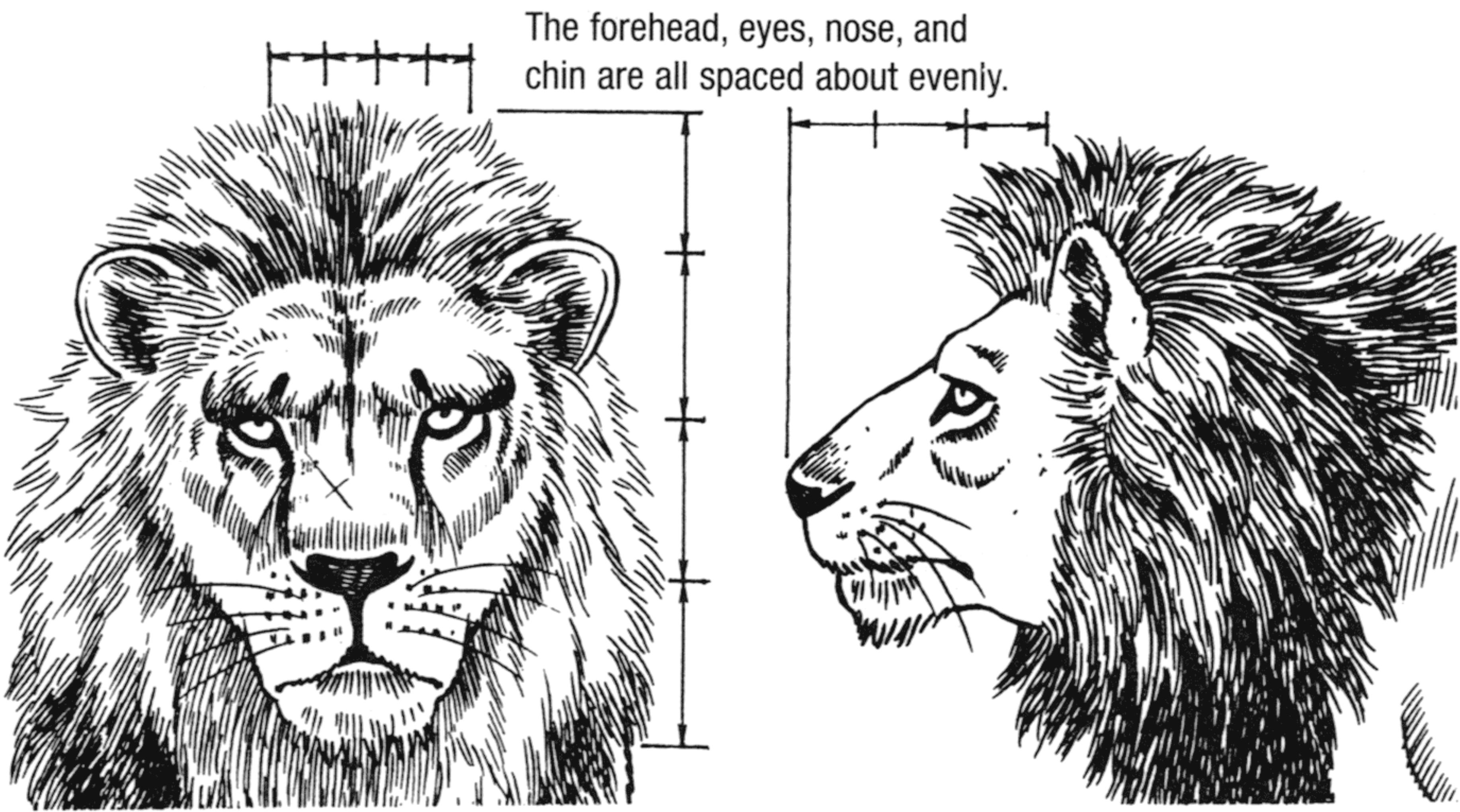
In the winter, the Japanese macaque grows about this thick.





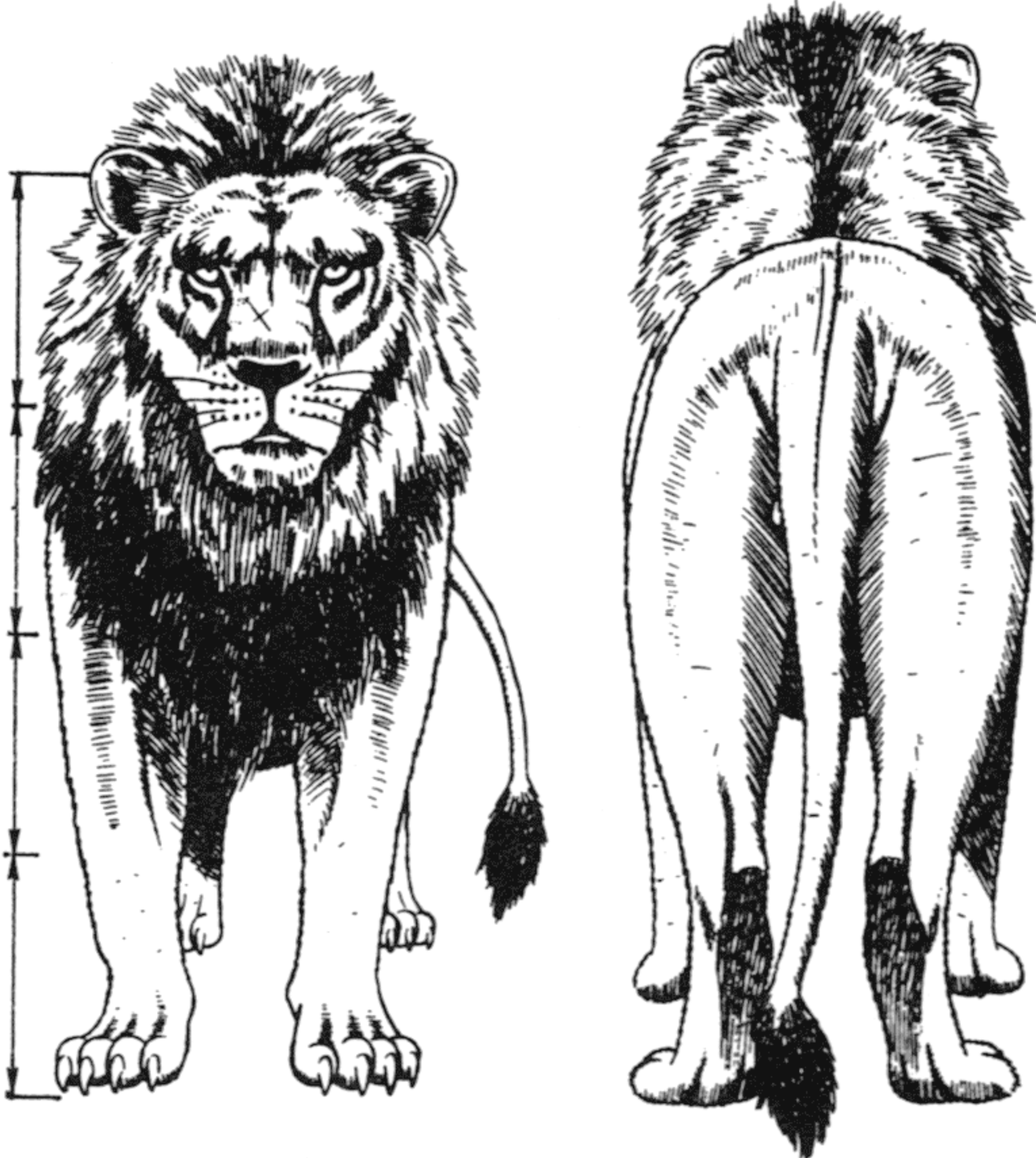
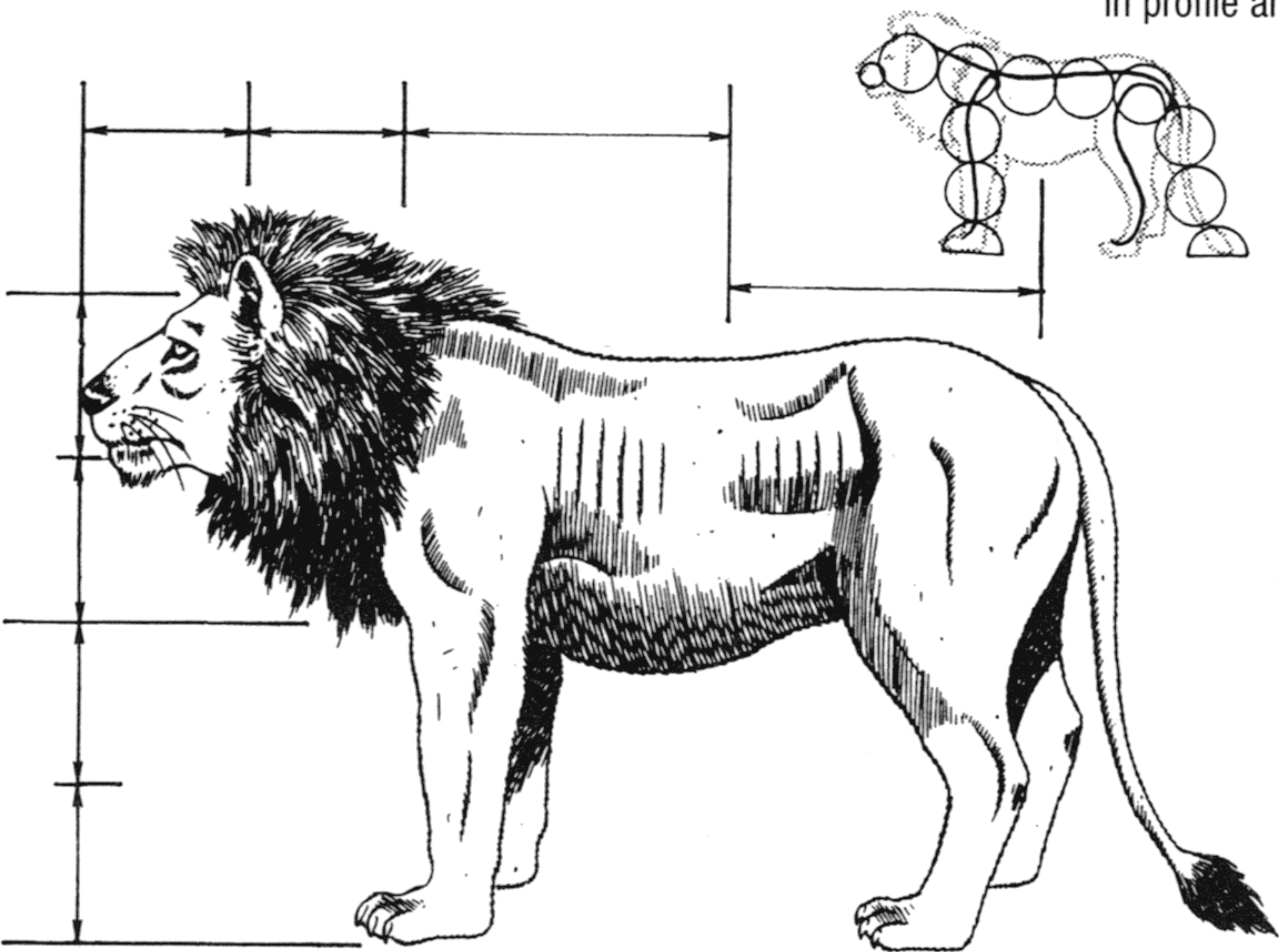
Lions

They way the mane grows varies from lion to lion. Use an octagonal shape for the lion's head and a hexagonal shape for the lioness's.

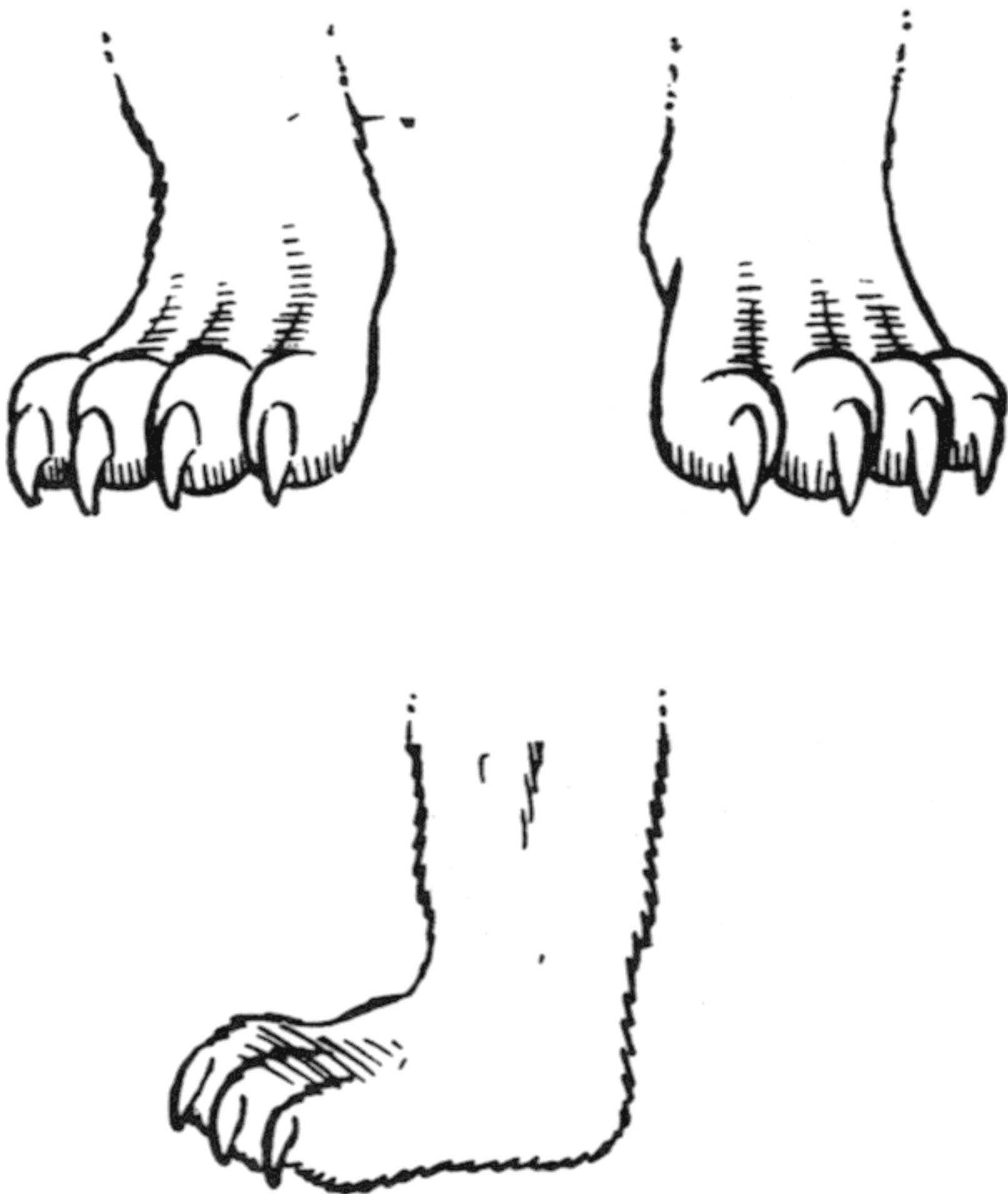
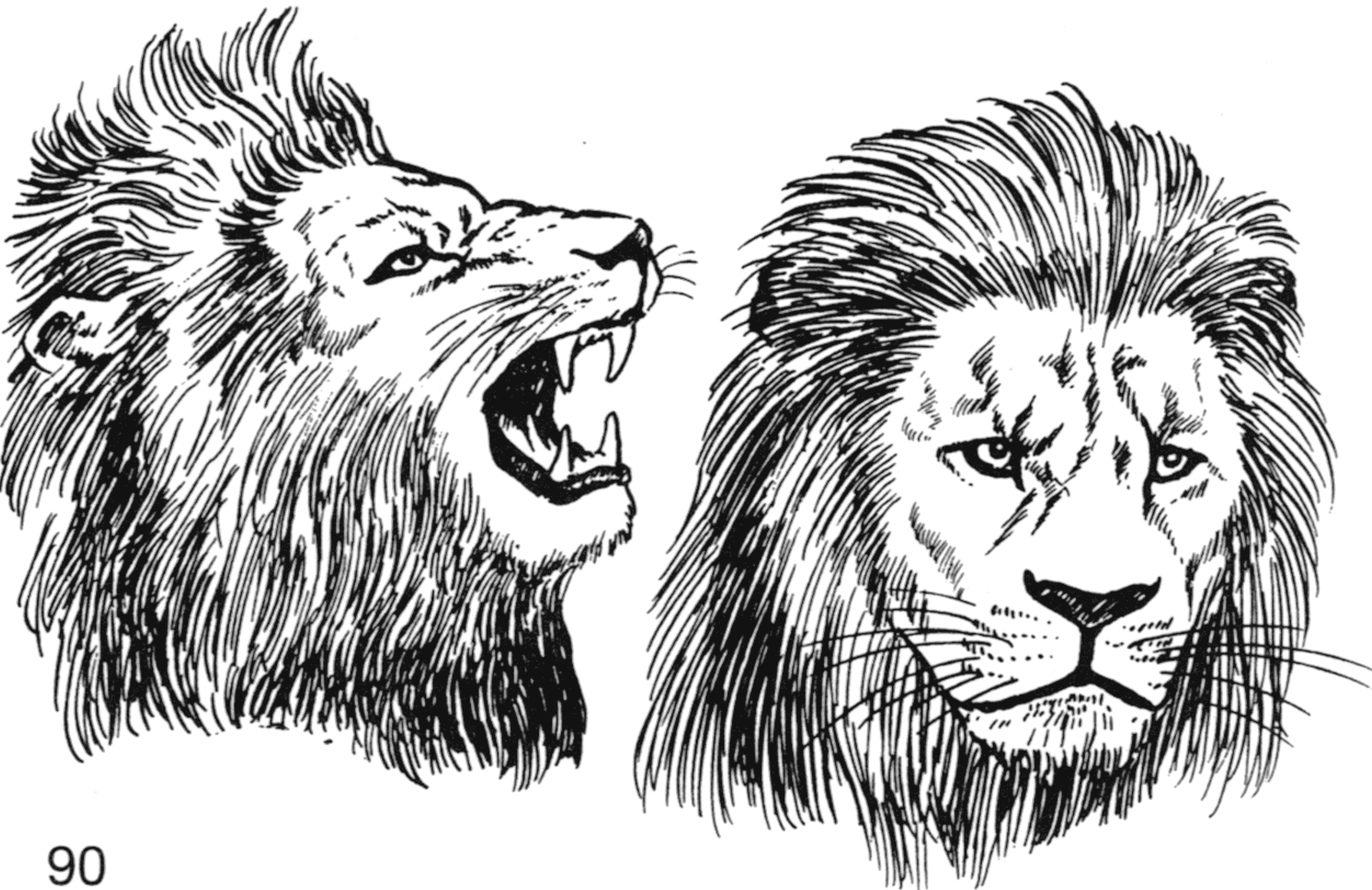


The mane radiates from the head.

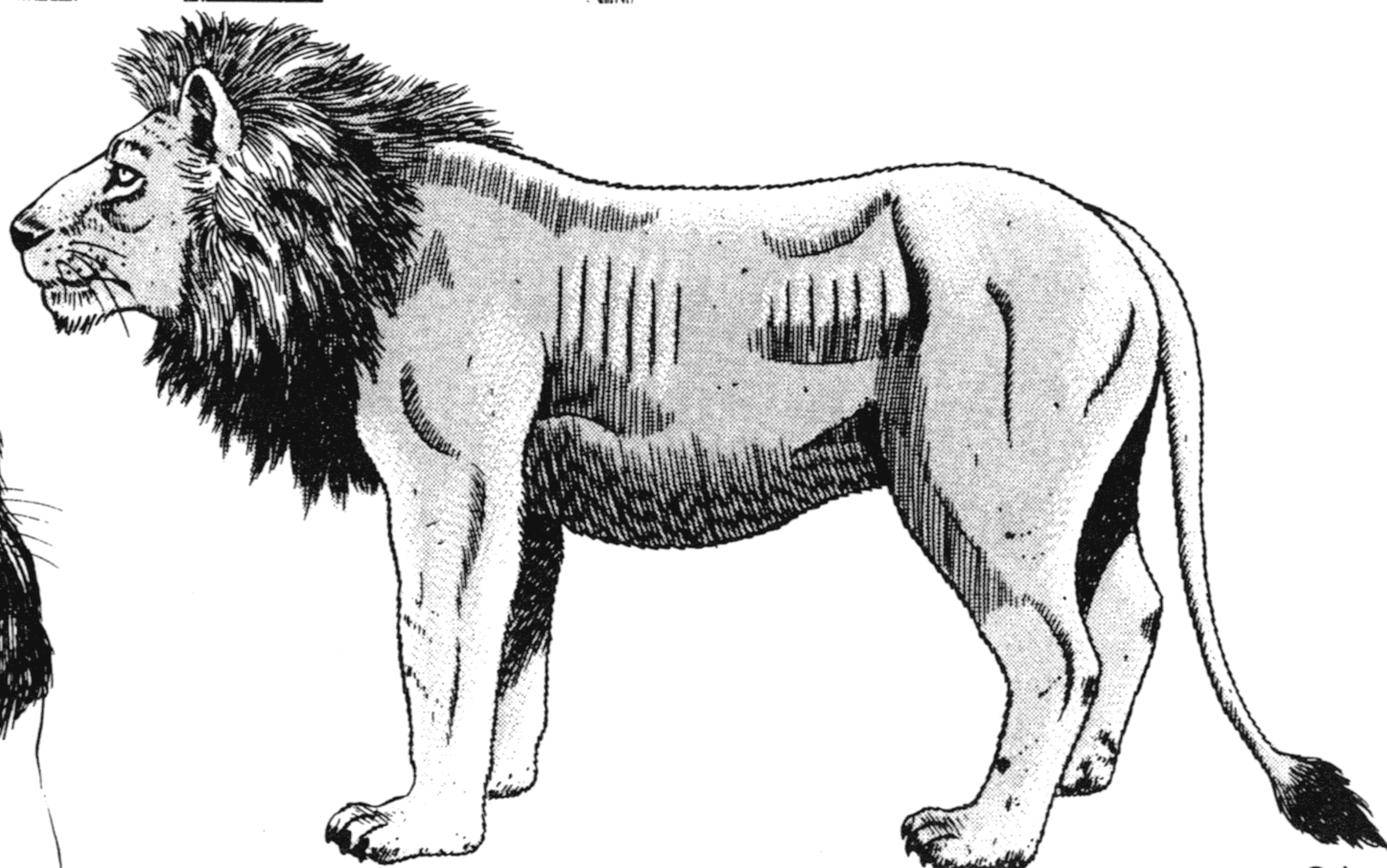
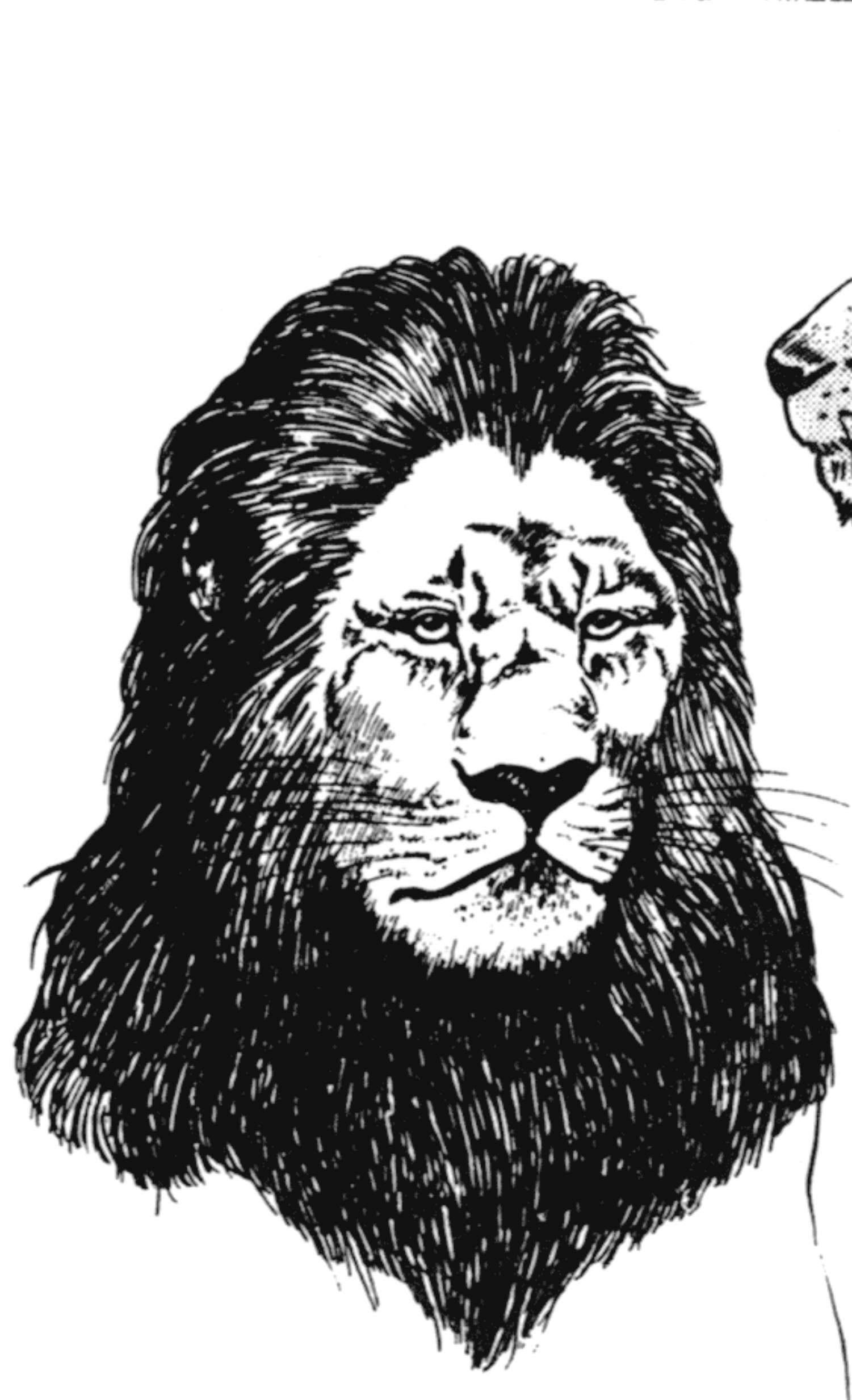
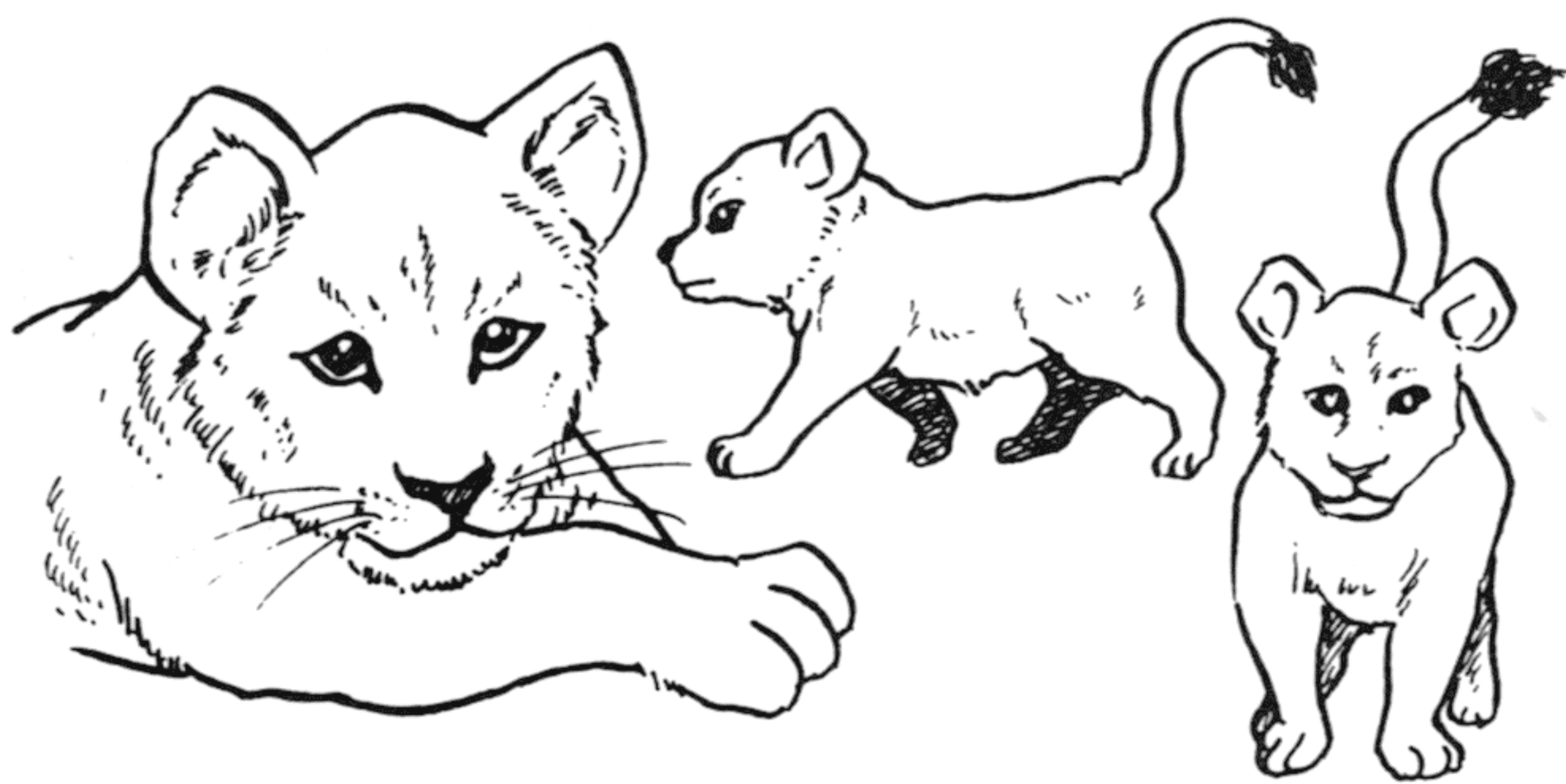
The forehead occupies 1/3 of the face in profile and the muzzle, the other 2/3.



Lions have thick legs and large feet.



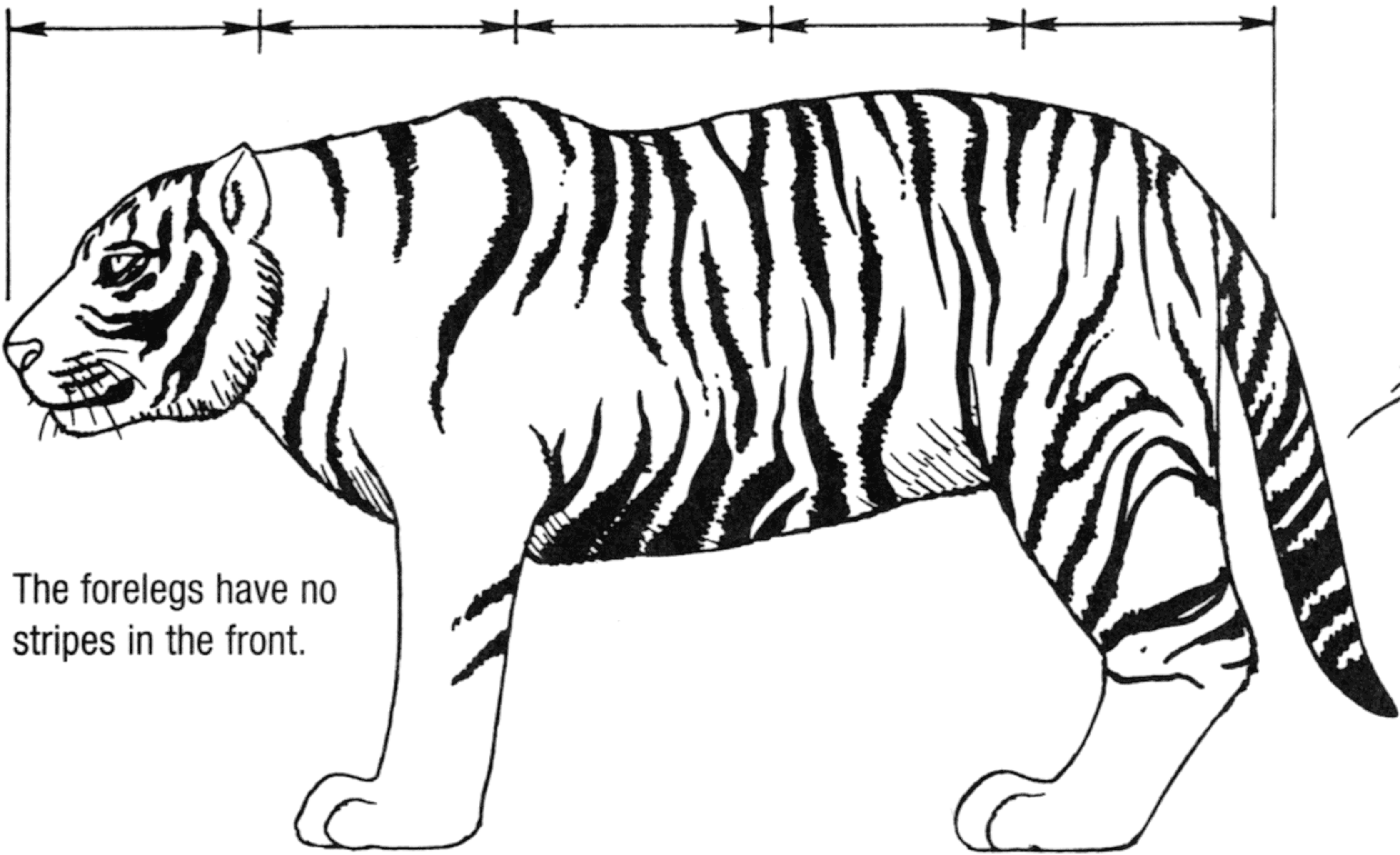




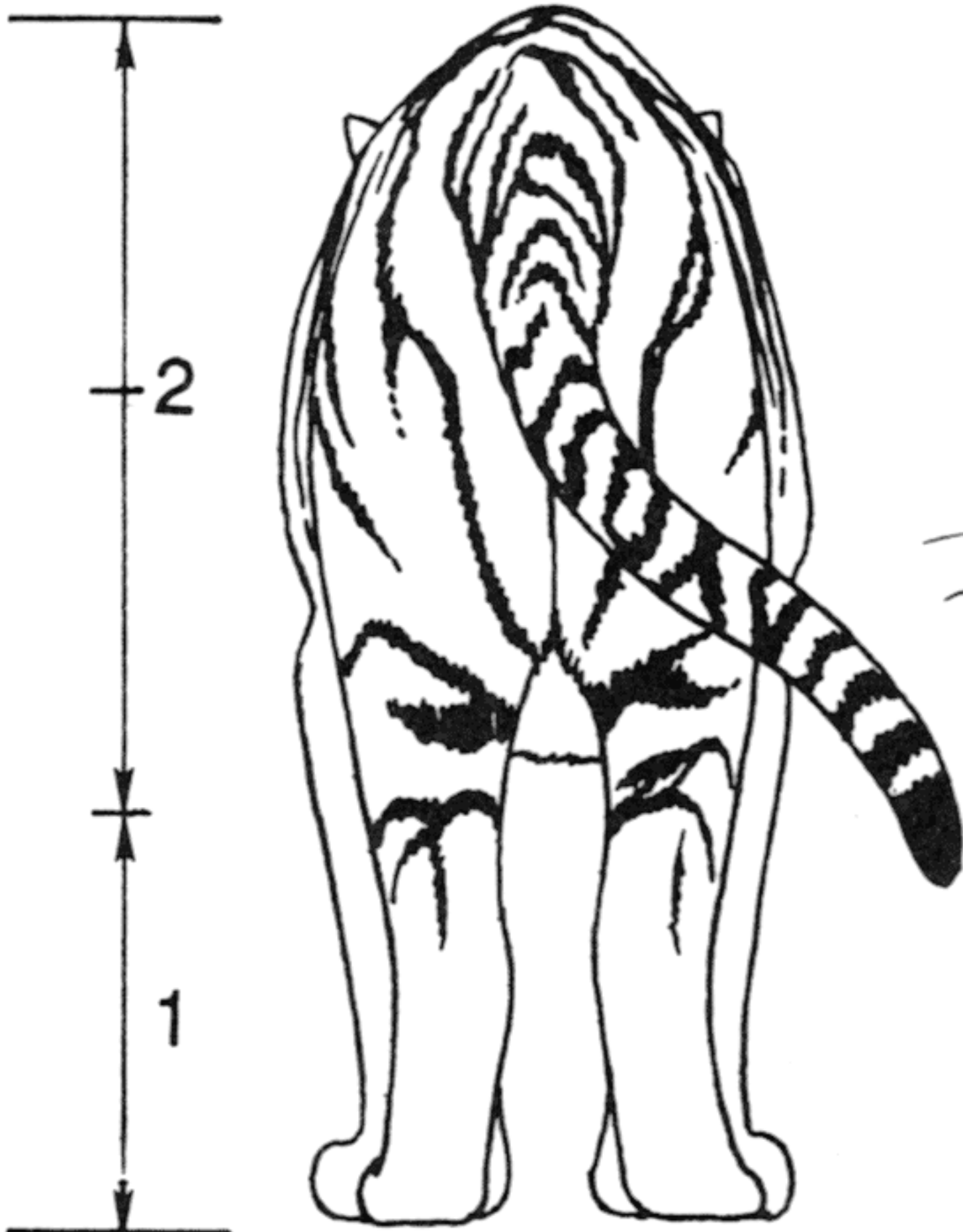
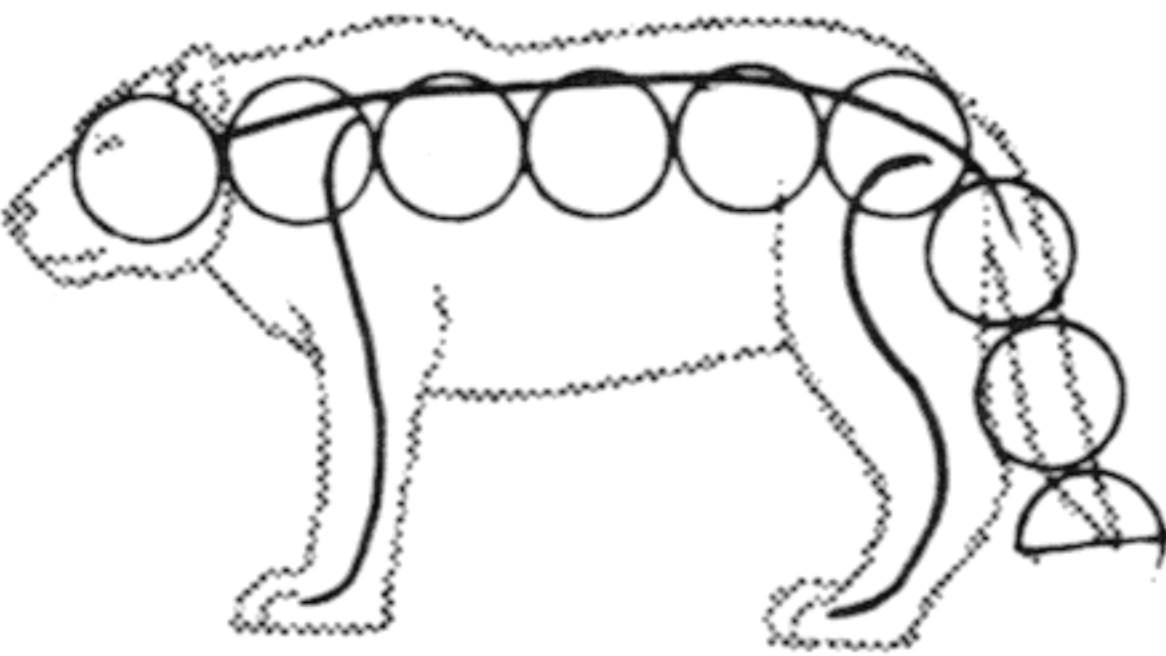
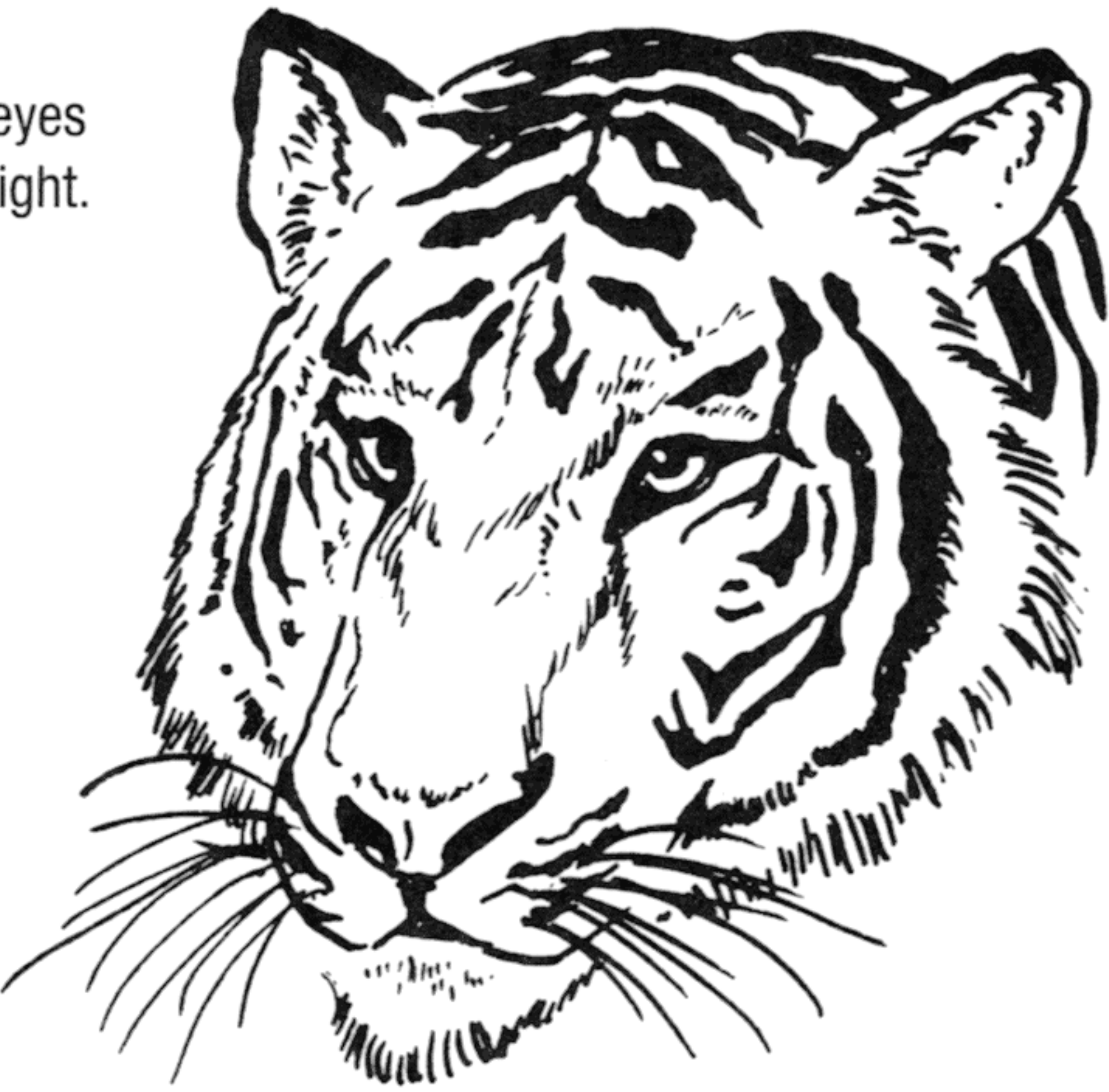


Tigers

The tiger has a round face. Use the eyes and the coat to project a sense of might.



The forelegs have no stripes in the front.



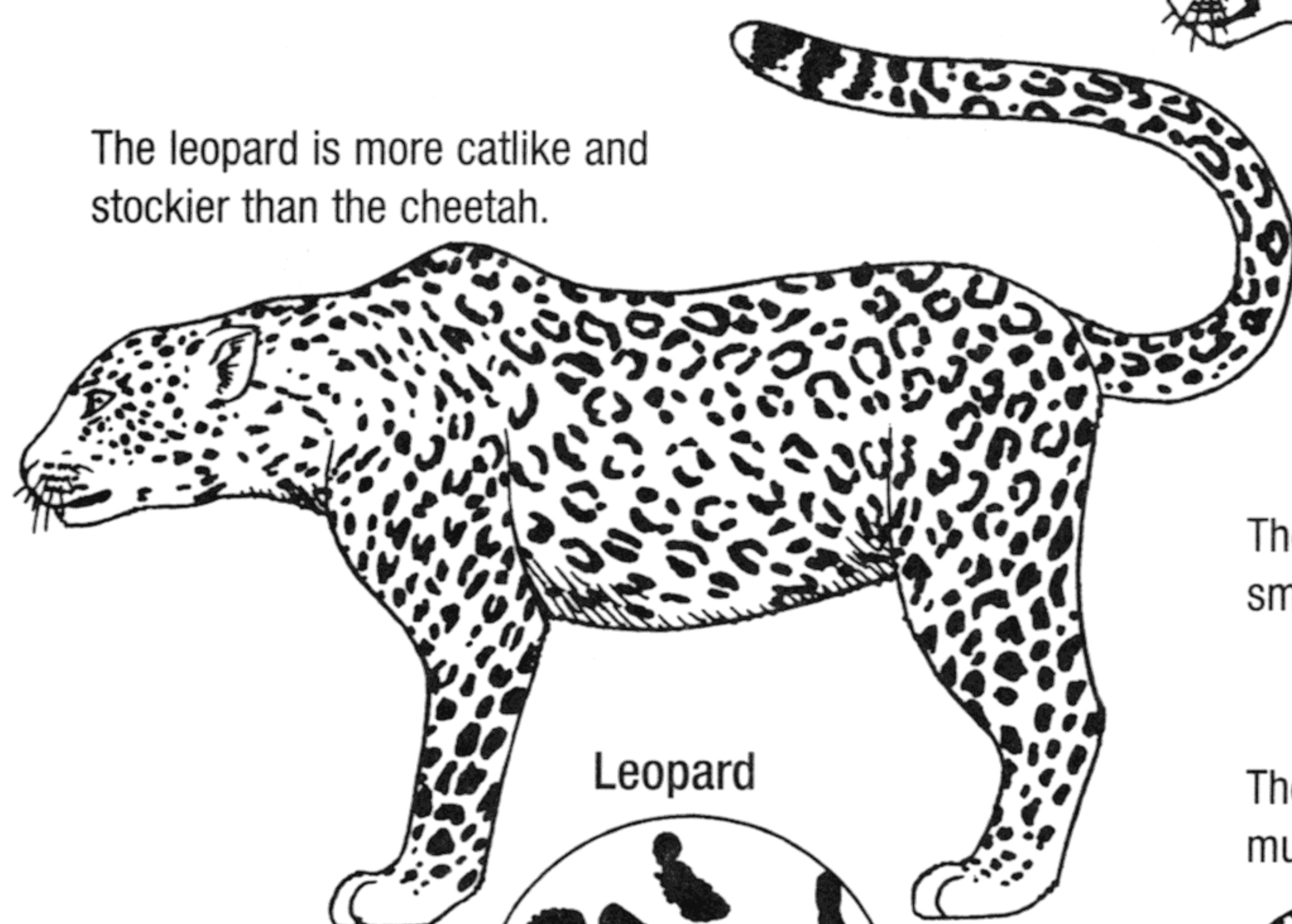


# Spotted Big Cats

These are big cats with patterns on their fur. Draw them with large paws and a powerful trunk.

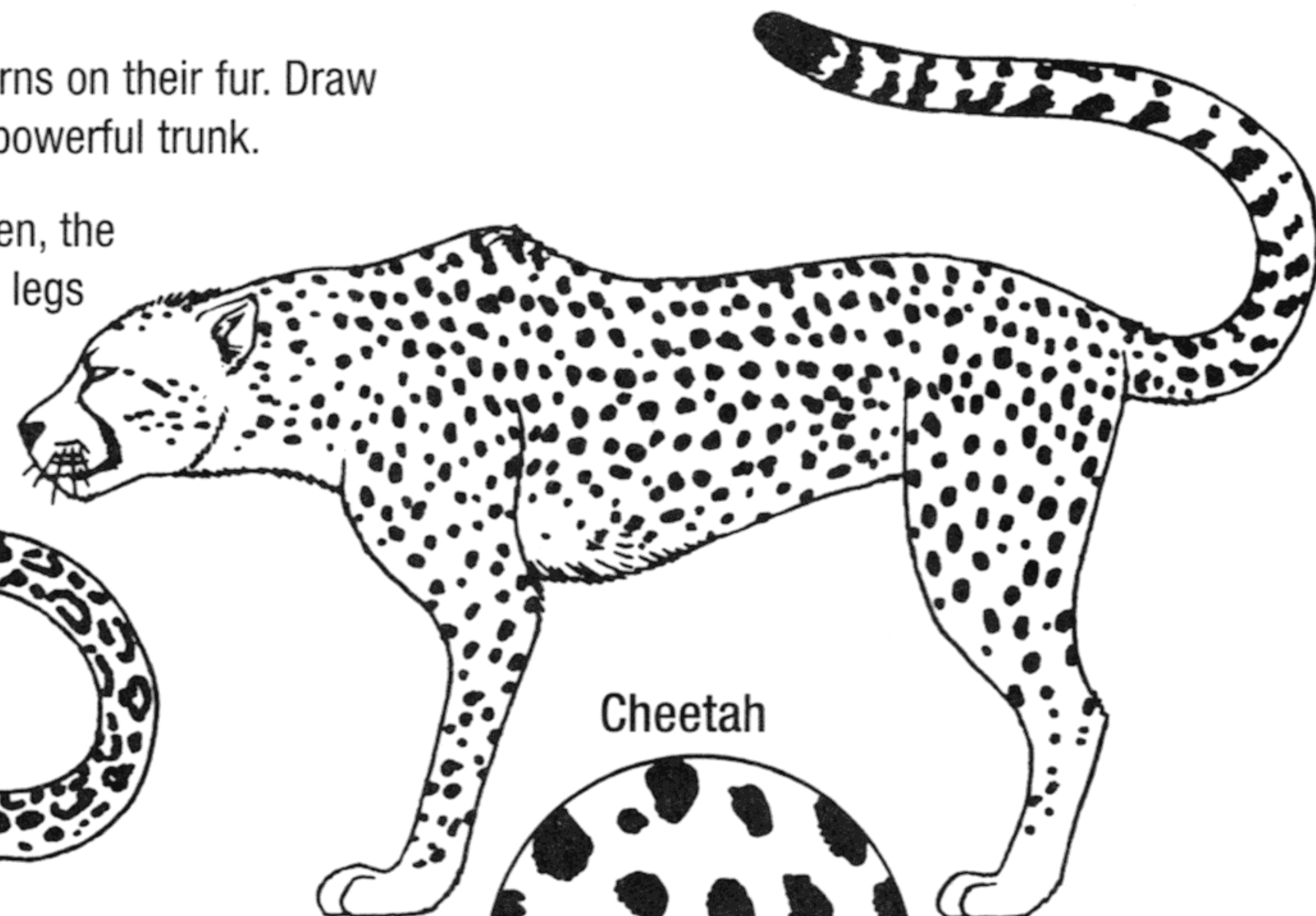
From the chest to the abdomen, the cheetah has a slim build. The legs are slender.

The leopard is more catlike and stockier than the cheetah.



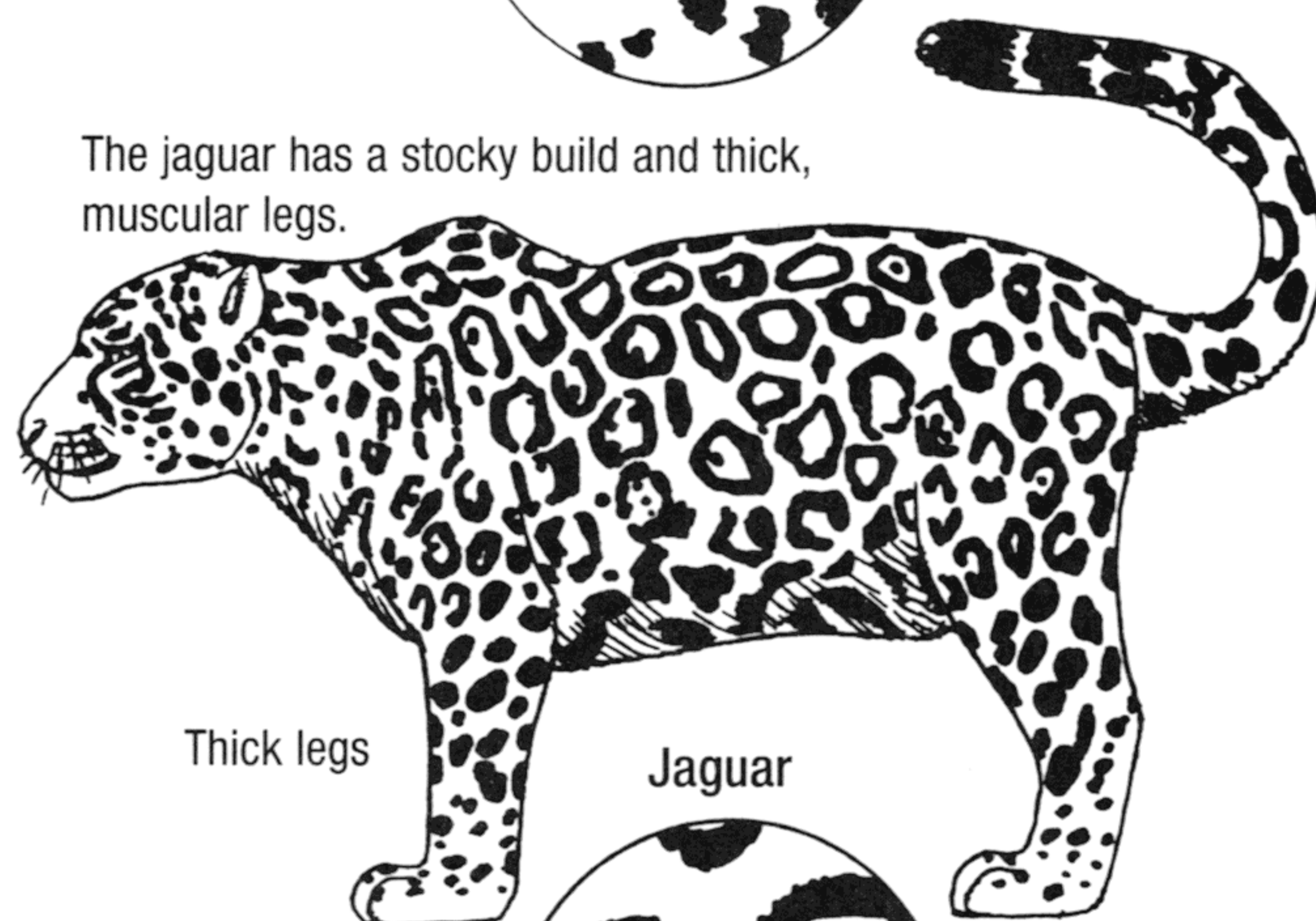
Leopard

The majority of the leopard's spots have the appearance of two semicircles attached together.



Cheetah

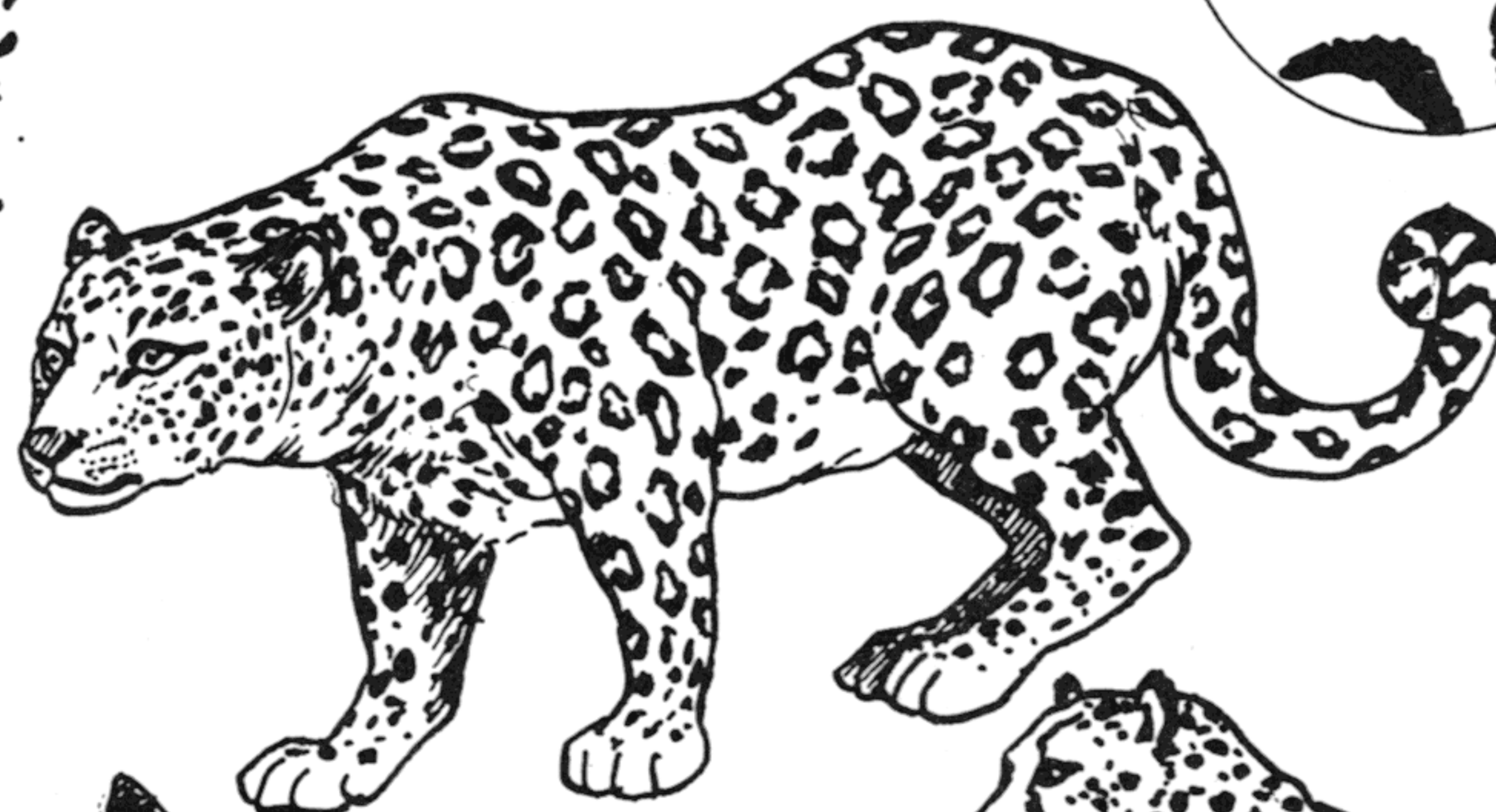
The cheetah has small, round spots.



Thick legs

Jaguar

The jaguar's individual spots are large with small, black dots in the center.

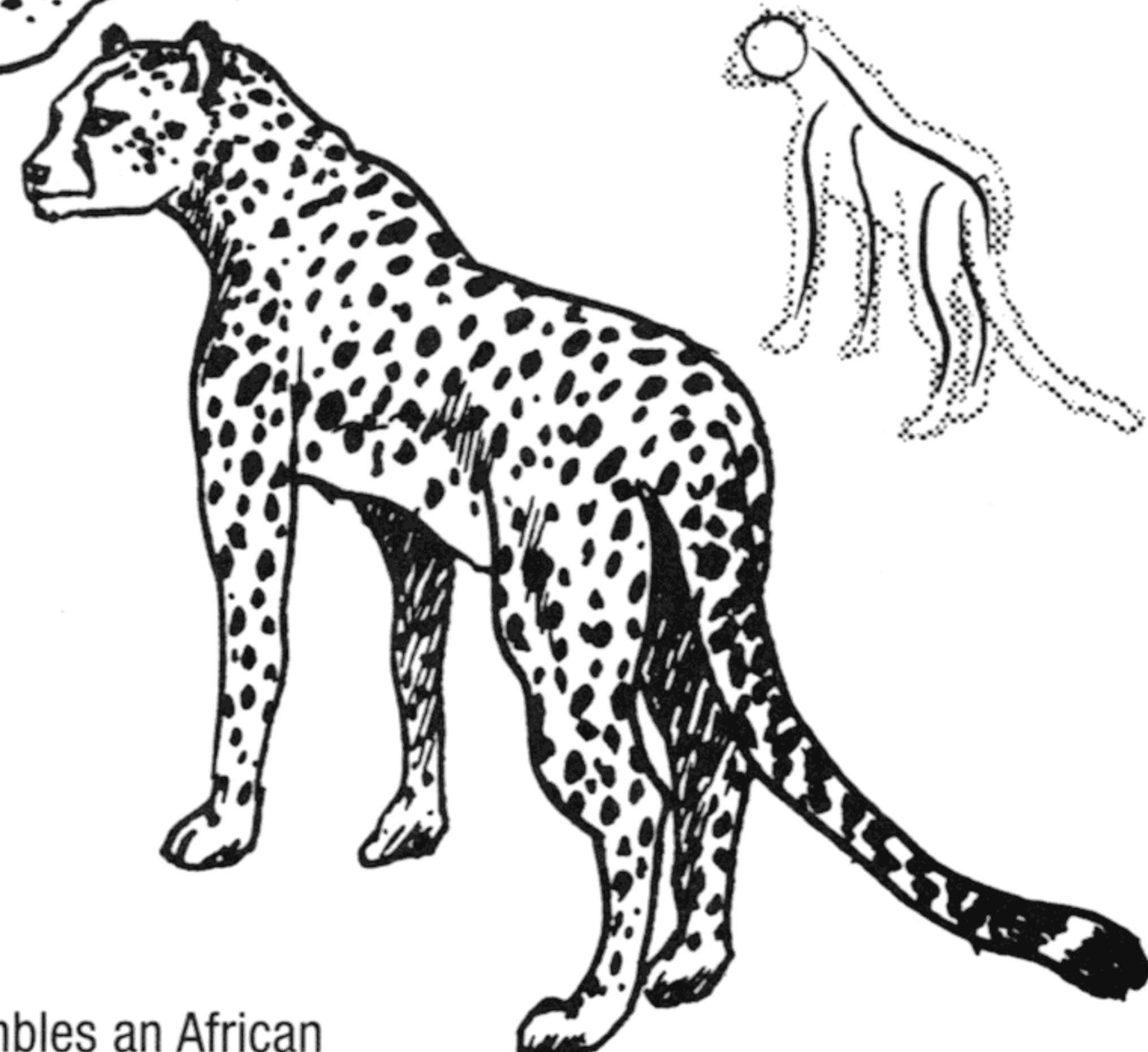


Panther



Mountain Lion

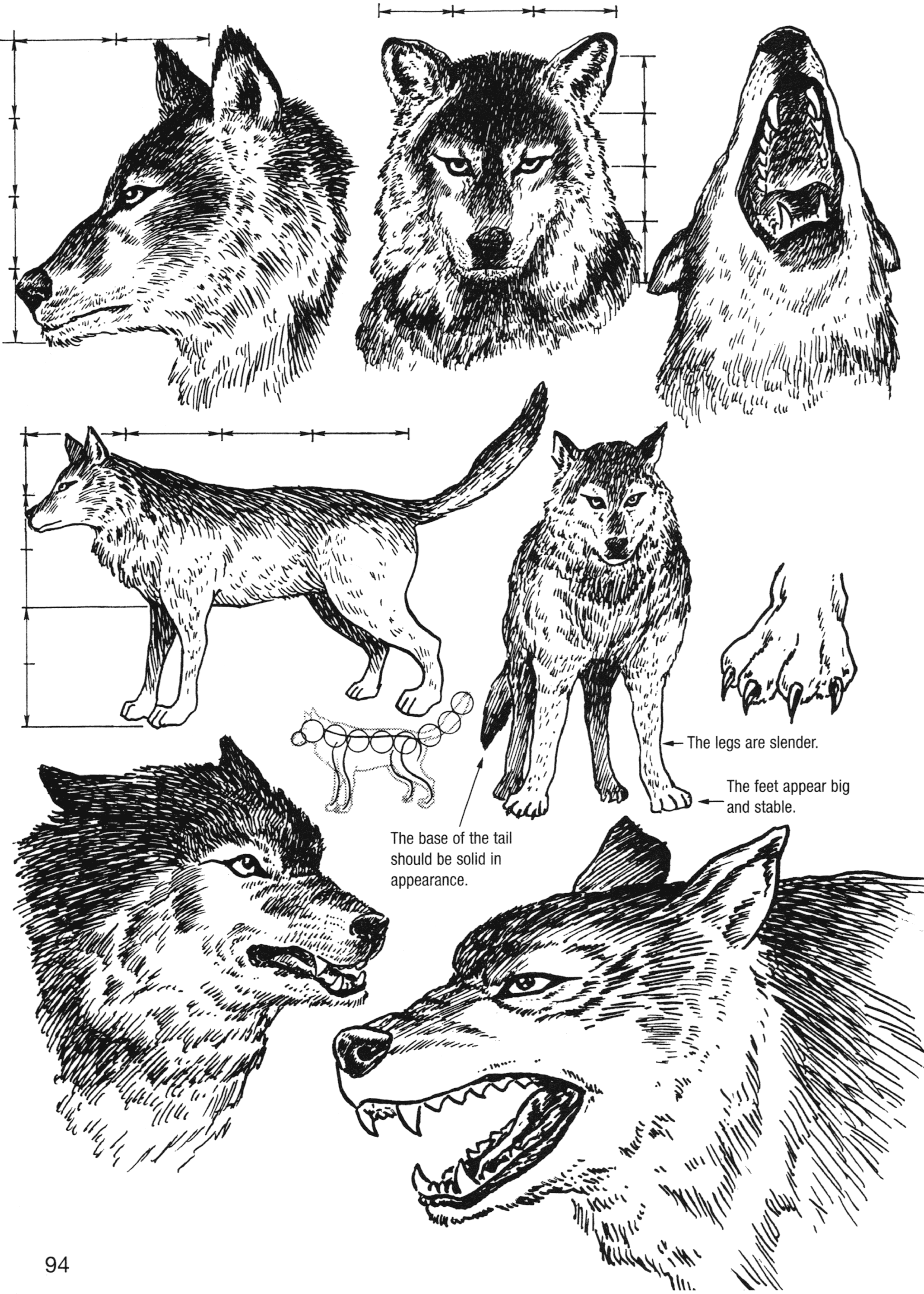
The mountain lion has no spots and closely resembles an African or Asian lioness at first glance. Draw the mountain lion with pointed ears and wide face to distinguish it from other species.



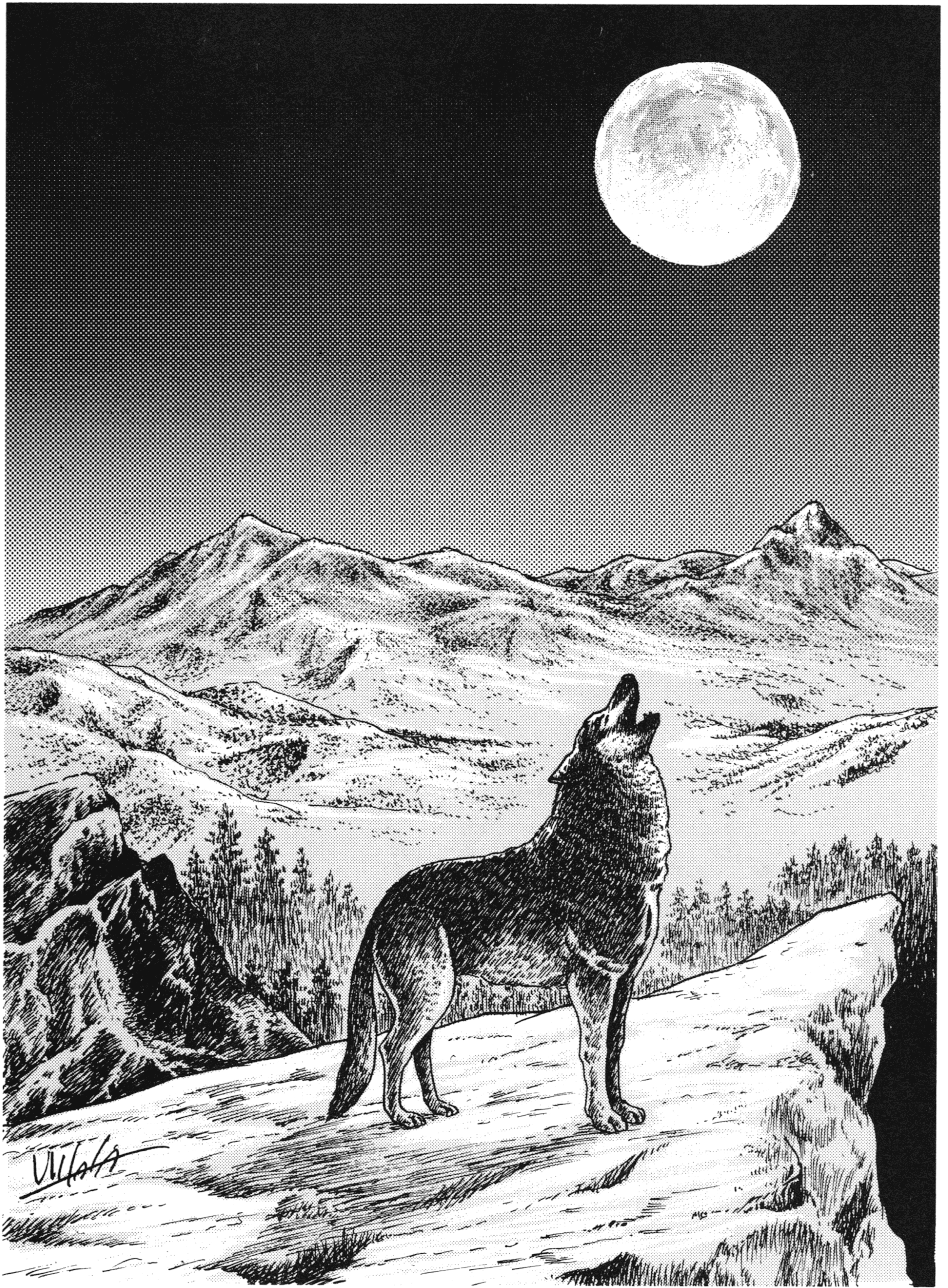


Wolves

To distinguish the wolf from a dog, draw the wolf with a longish snout and piercing eyes.





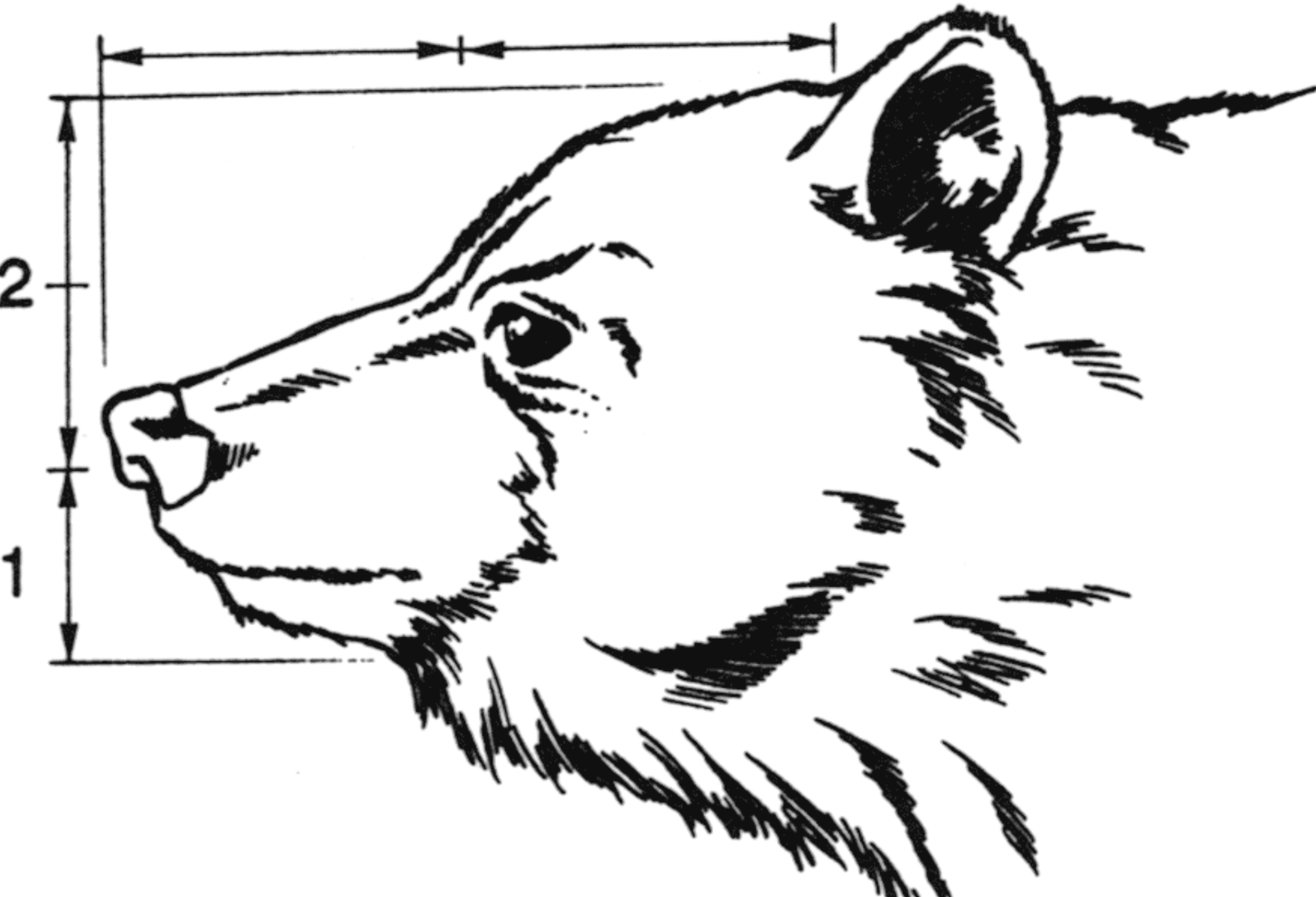




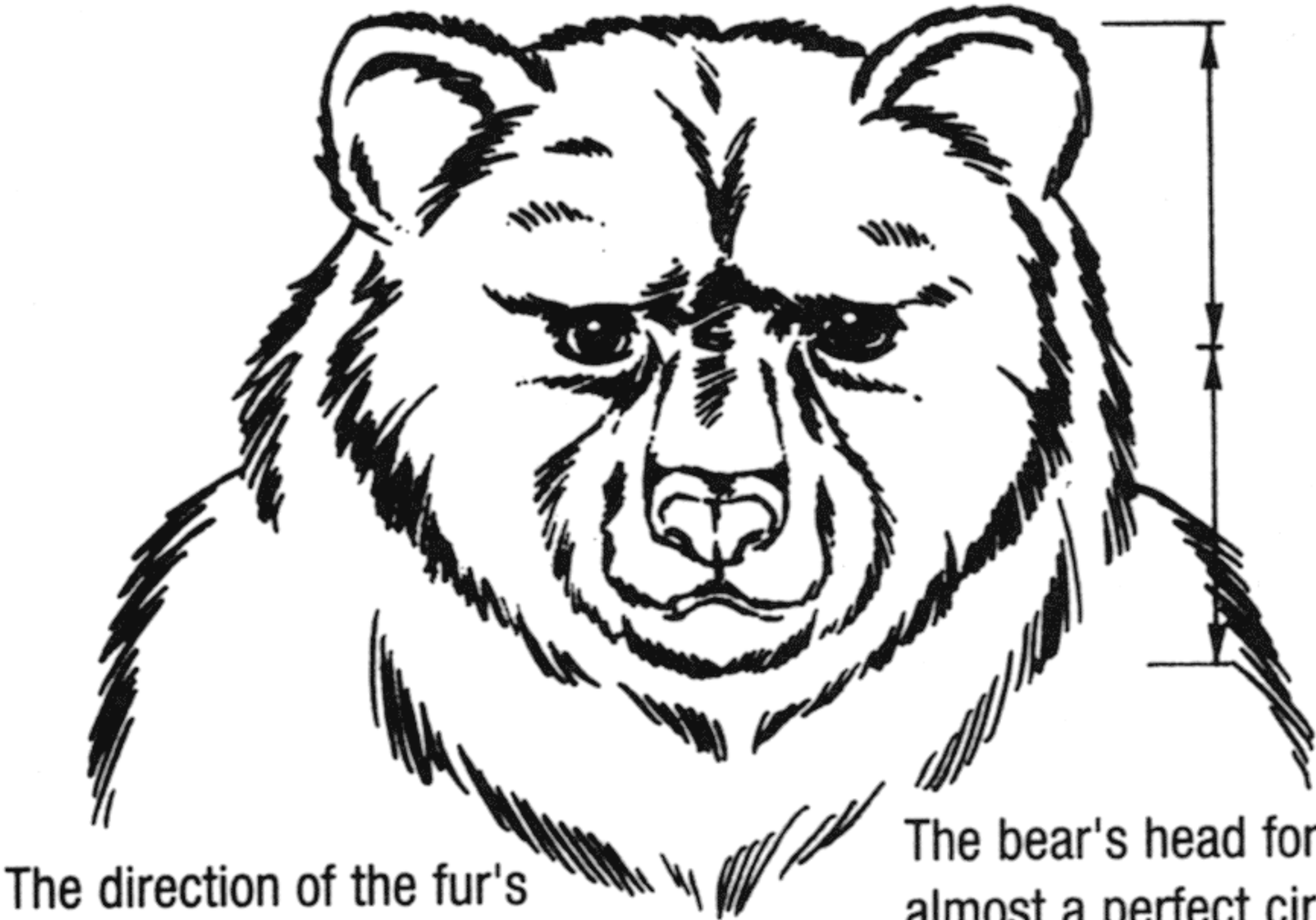
Bears

The space between the ears is wider than those of the eyes. The forehead forms a gentle arc.

The ears are semicircular.



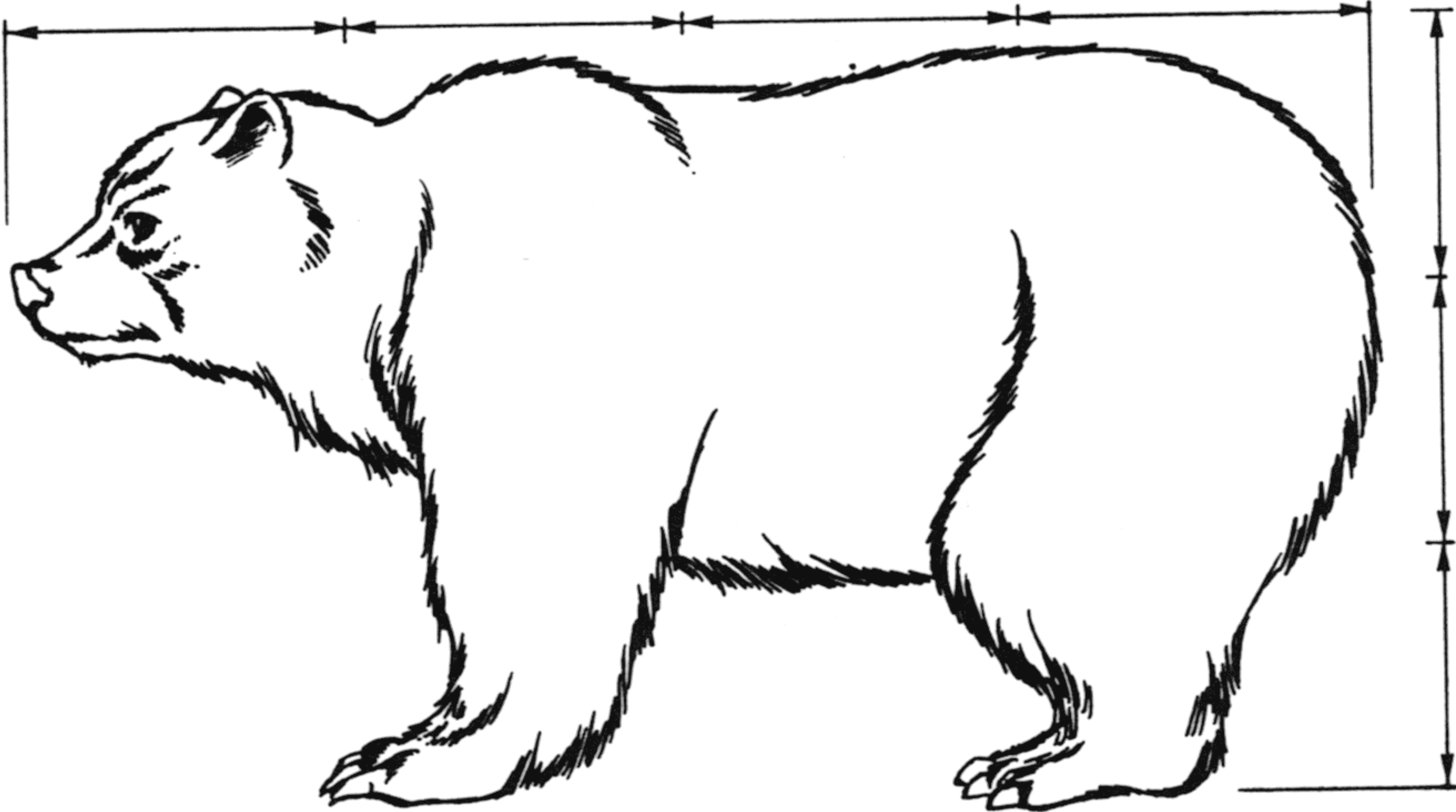
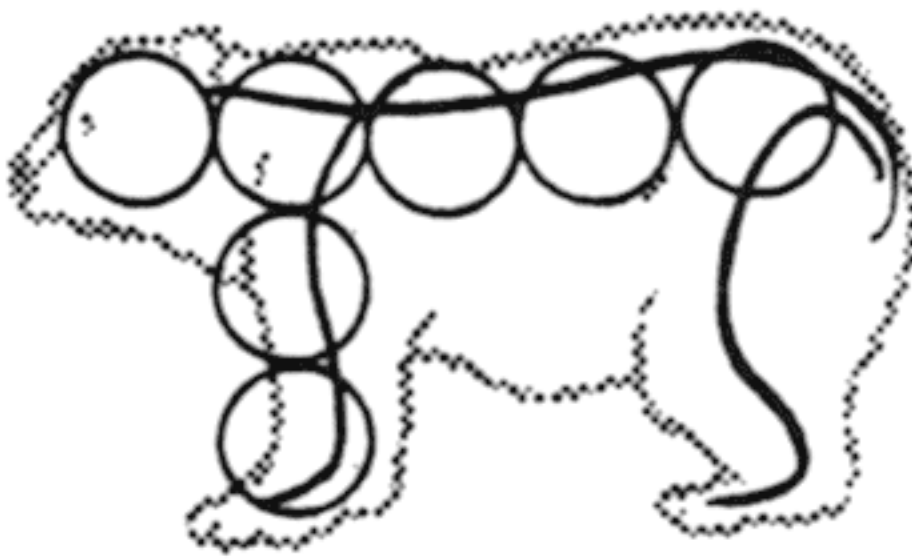
The trick to drawing the profile is to keep the distance between the eyes and ears on the wide side. Bringing the eyes too close to the ears will make your bear look more like a dog.



The direction of the fur's nap in the figure above gives the impression that this bear is worried.

The bear's head forms almost a perfect circle from the front.

The shoulders form rounded hills on the back. Use the shoulders as guides when drawing the forelegs.



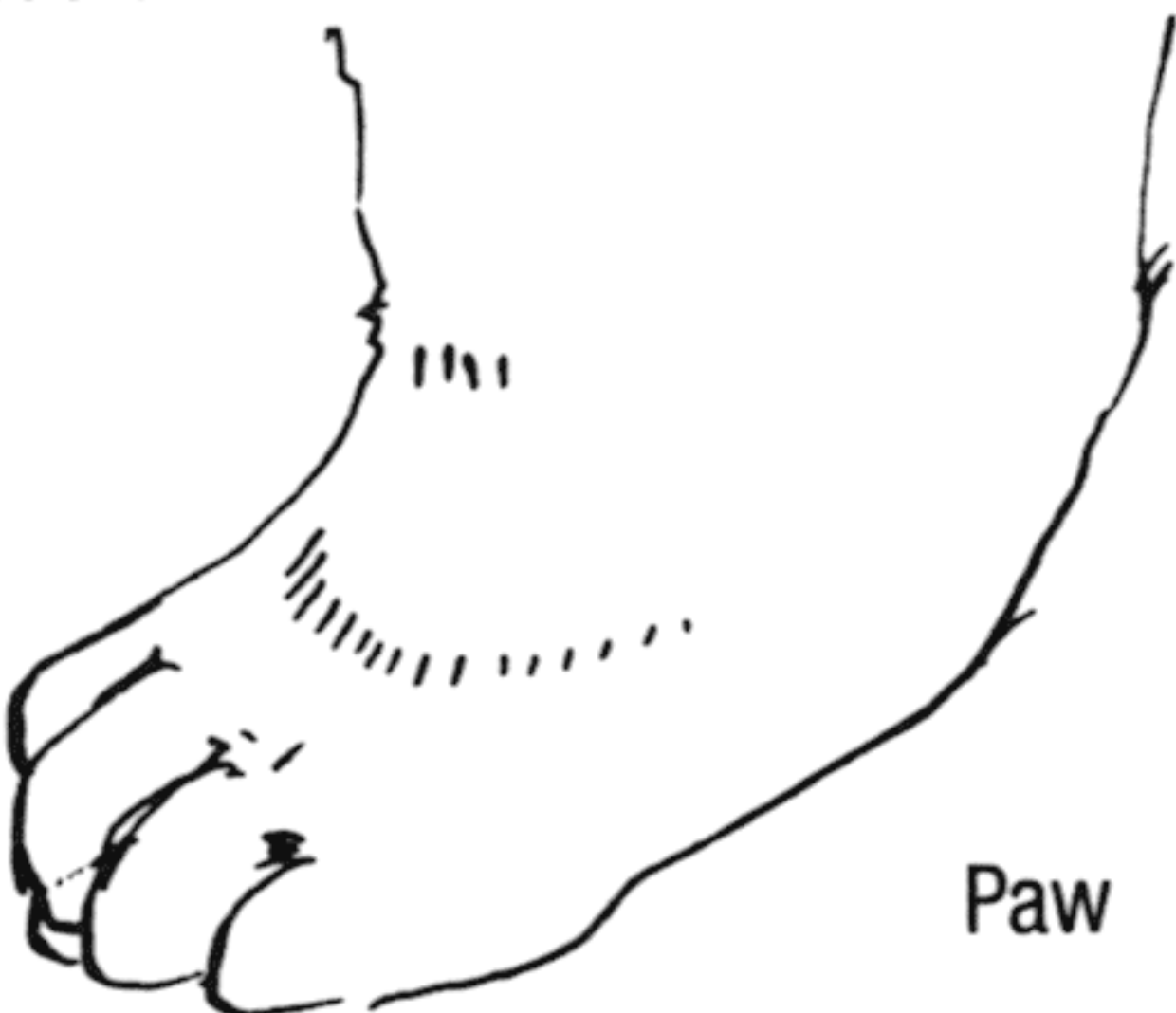
The flats of the front paws are small—equal to about only 2/3 of the face.



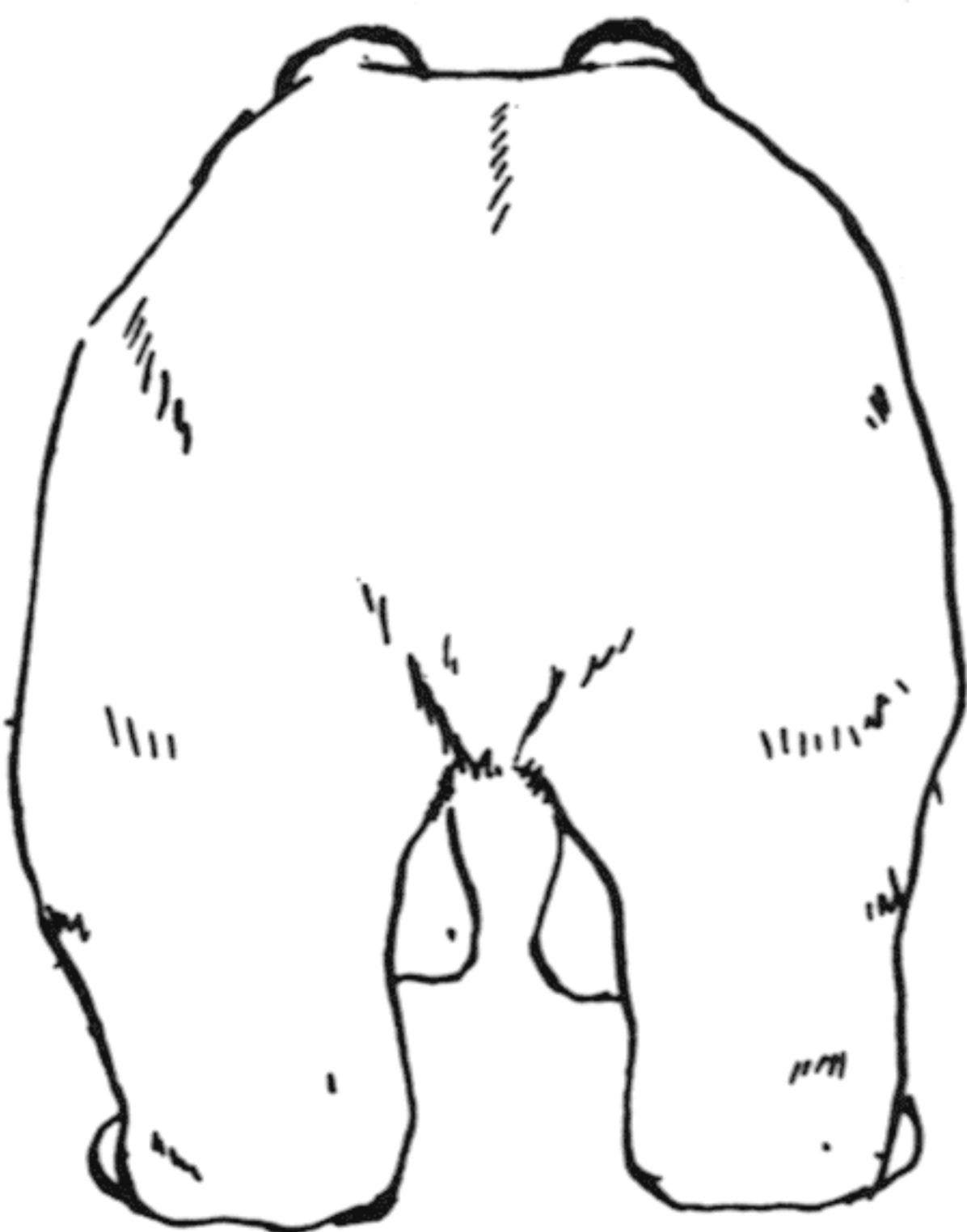
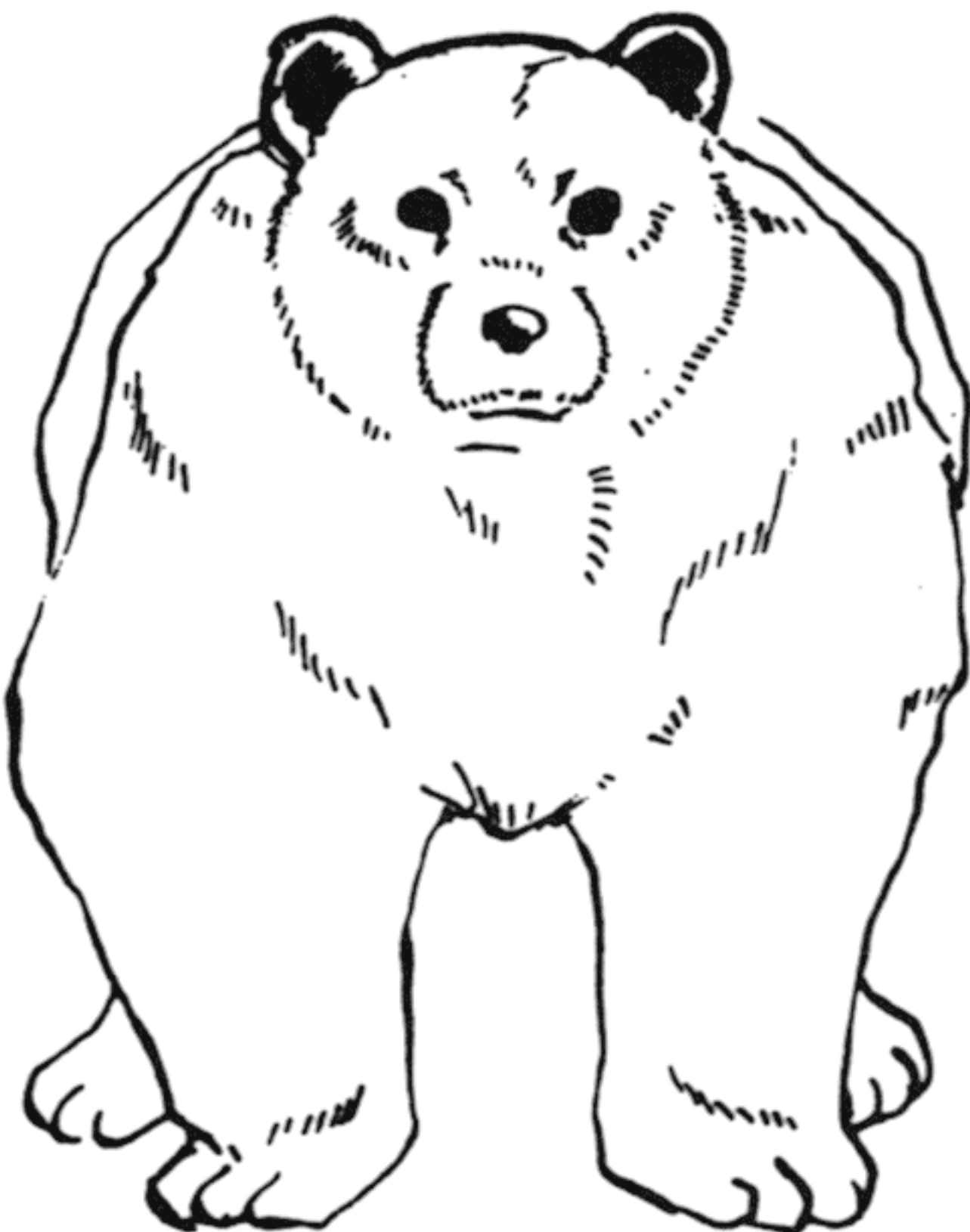
Front paw underside



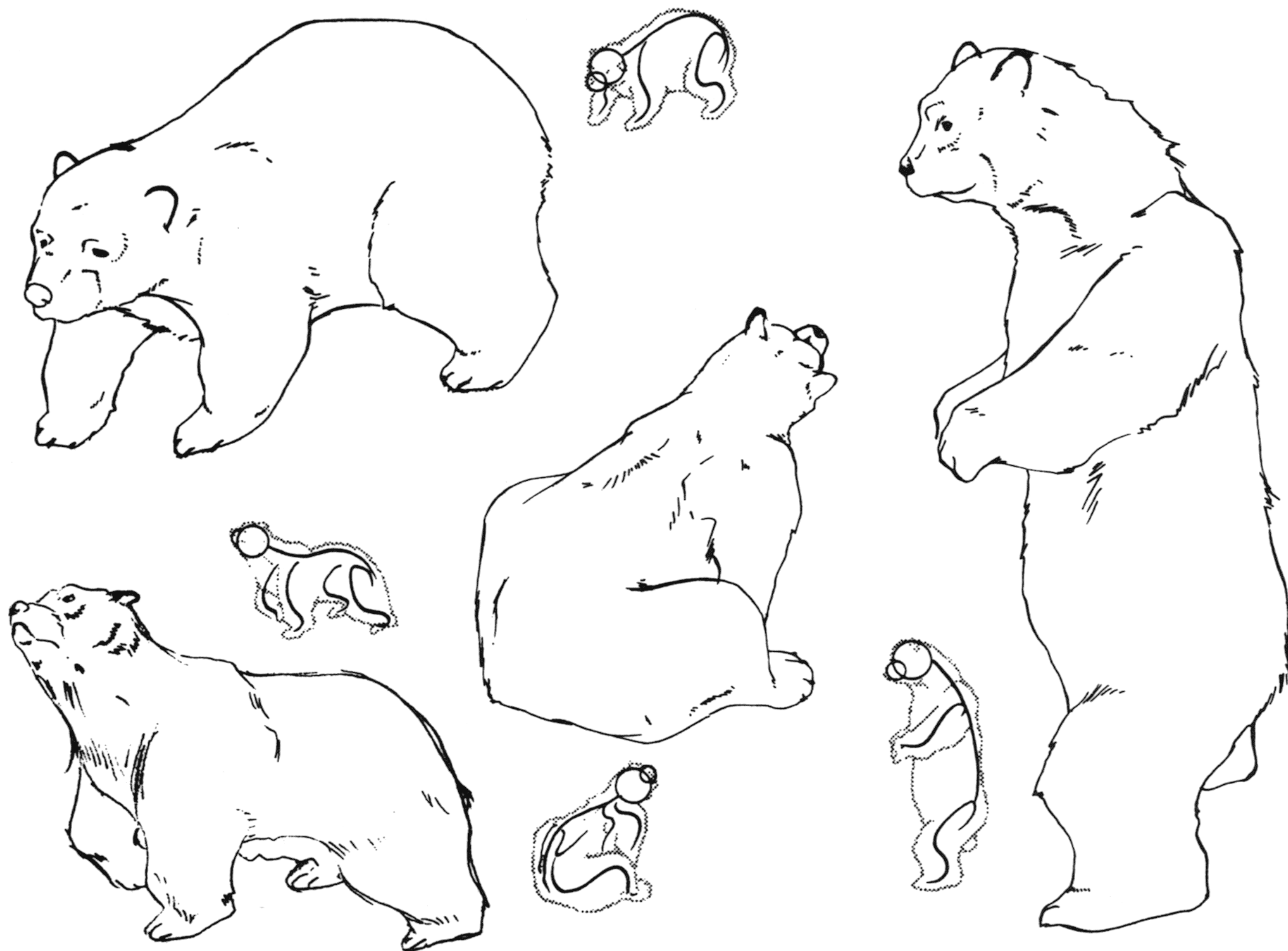
The tail is short.



Paw



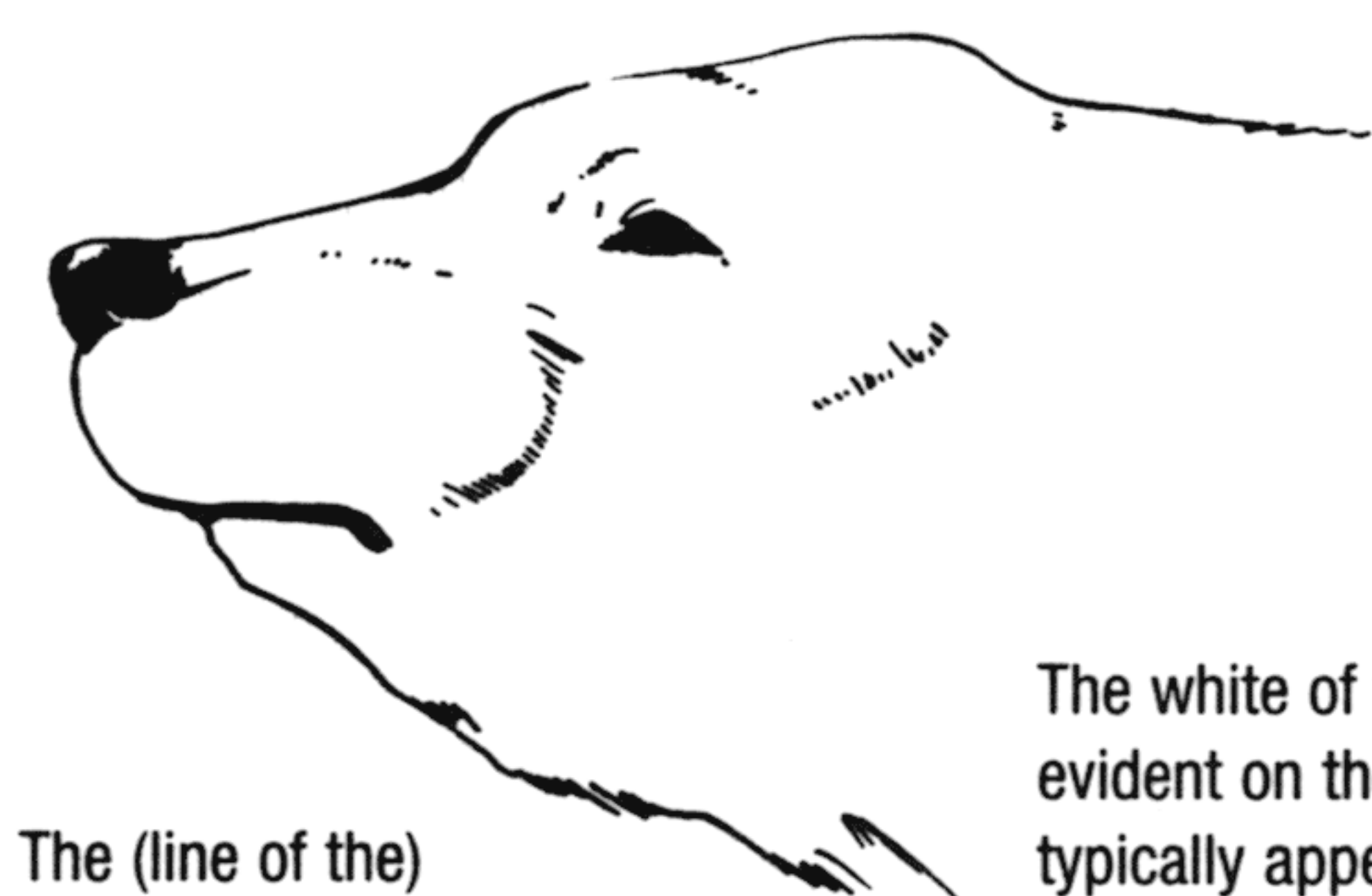




## Polar Bears

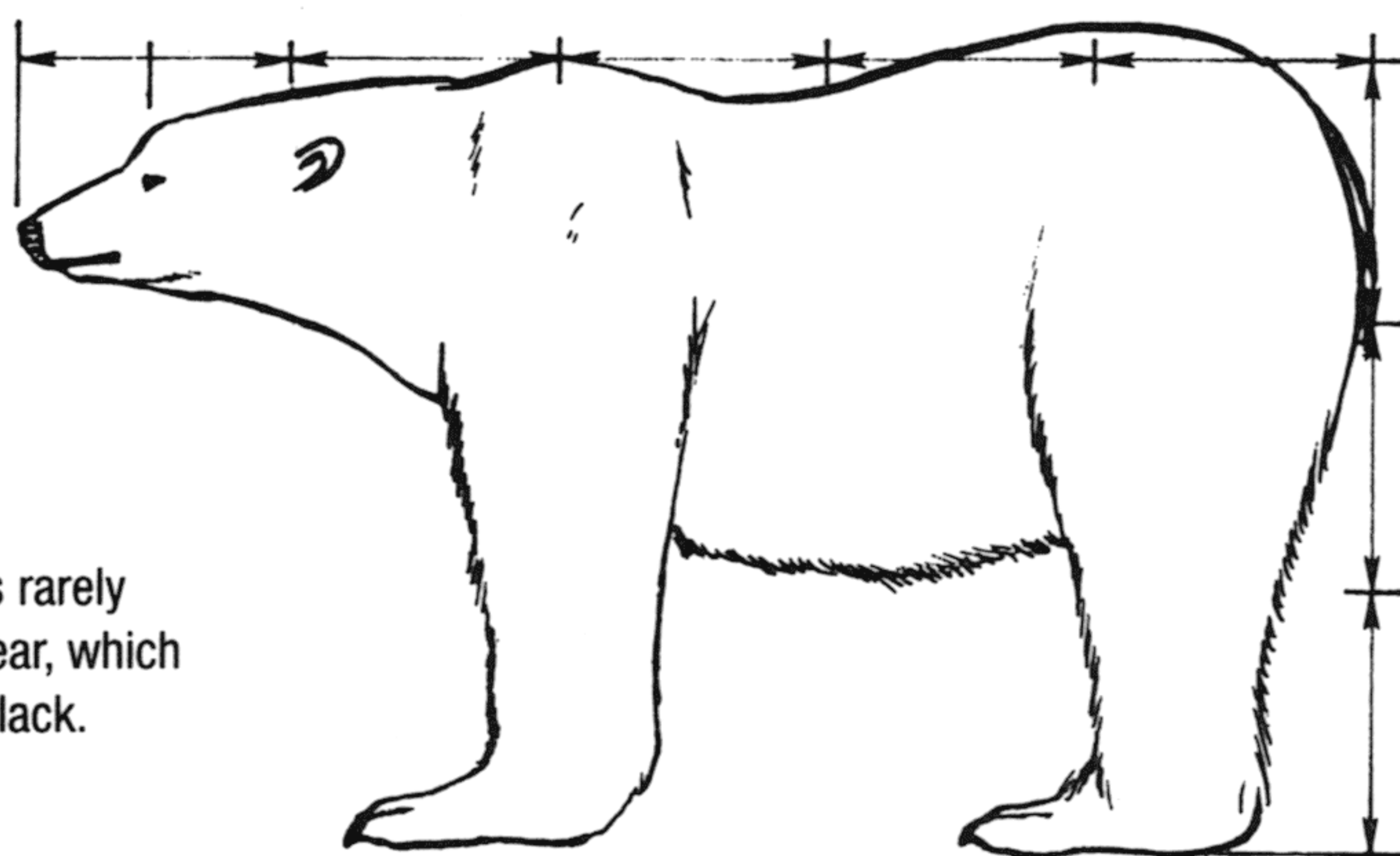
The polar bear has a more squarish face than the average bear. A distinguishing feature lies in its large paws, which are about the same size as its head.

The ears are positioned toward the back of the head, spaced as distant from the eyes as the eyes are from the nose—a distinctive trait of this species.



The (line of the) mouth is black.

The white of the eye is rarely evident on the polar bear, which typically appear coal black.



The nose is black.





Zebras

The ears are spaced approximately the equivalent to half the head's full width.

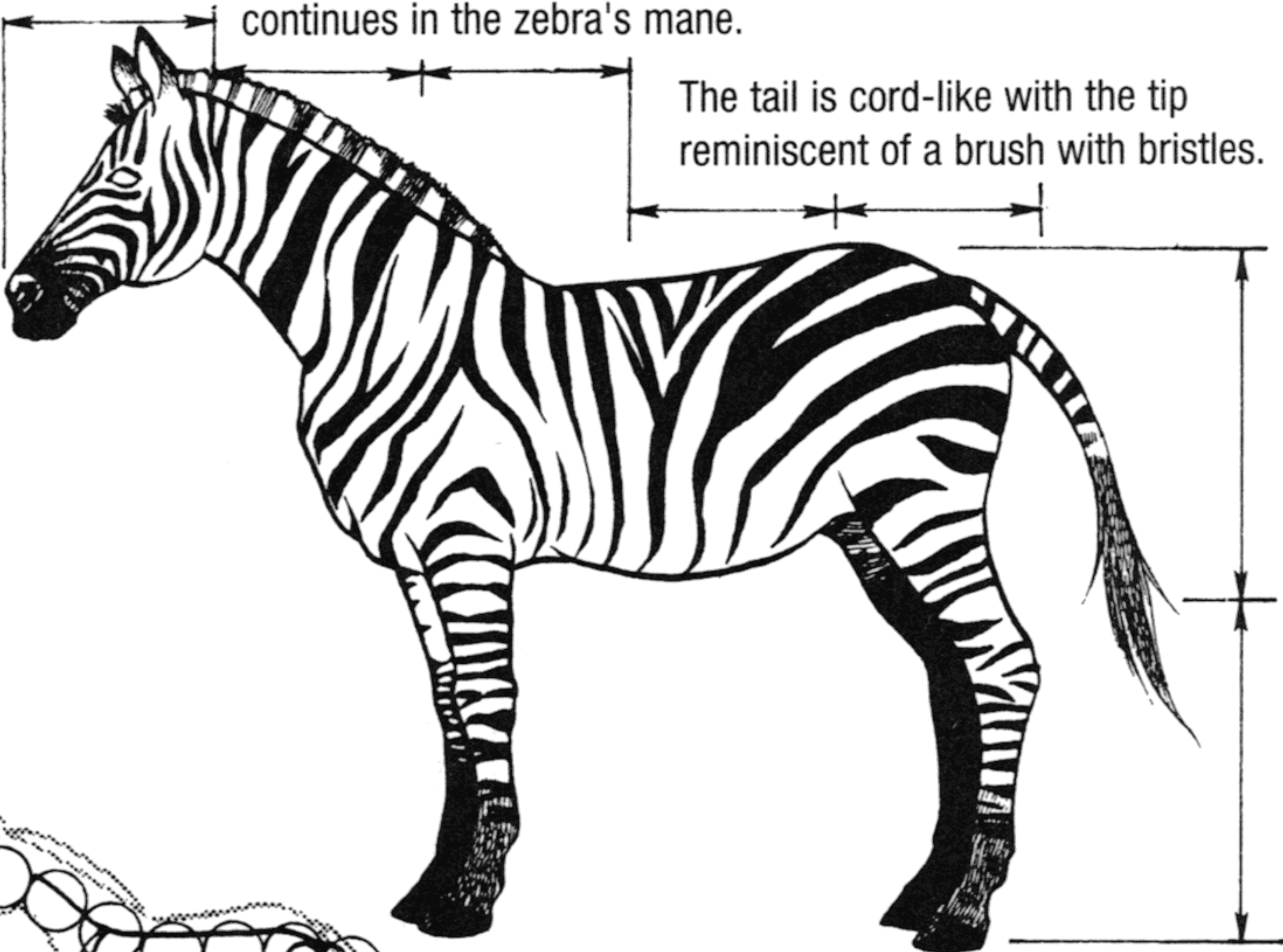


The stripes are symmetrical.

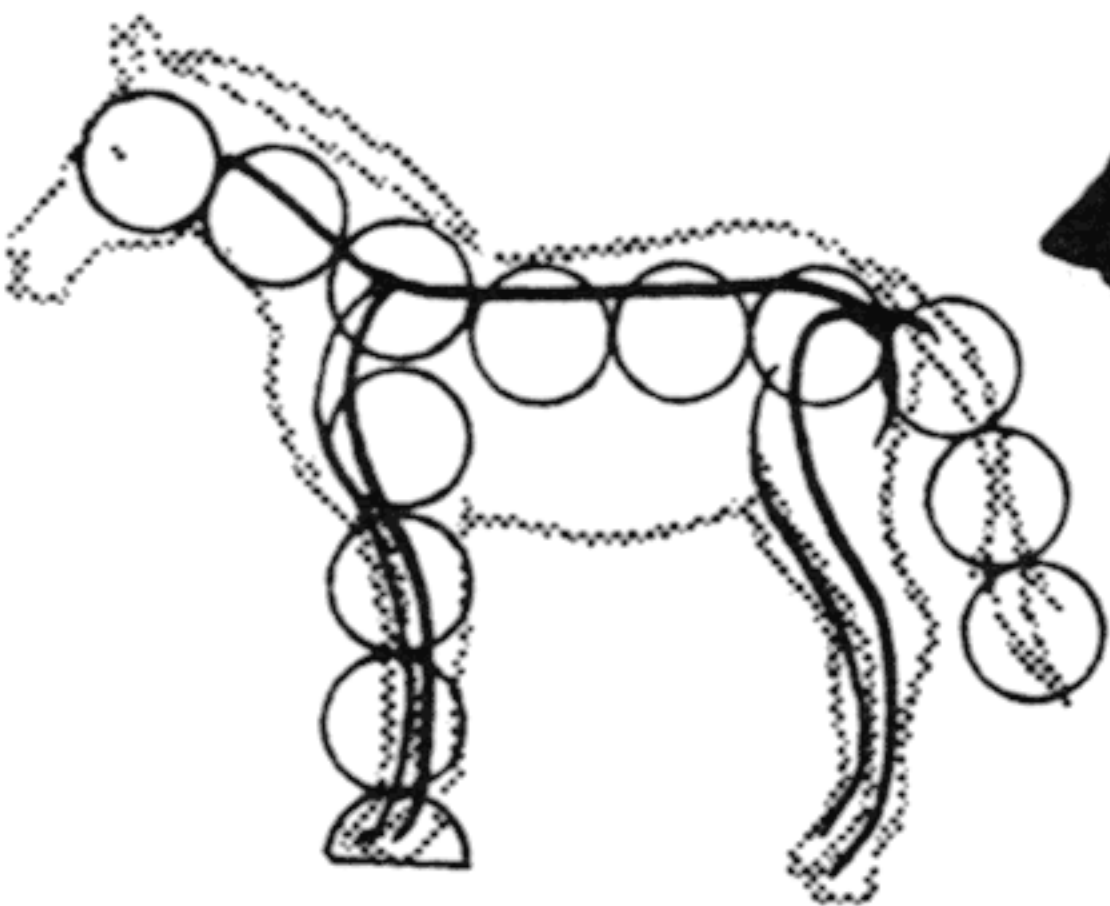
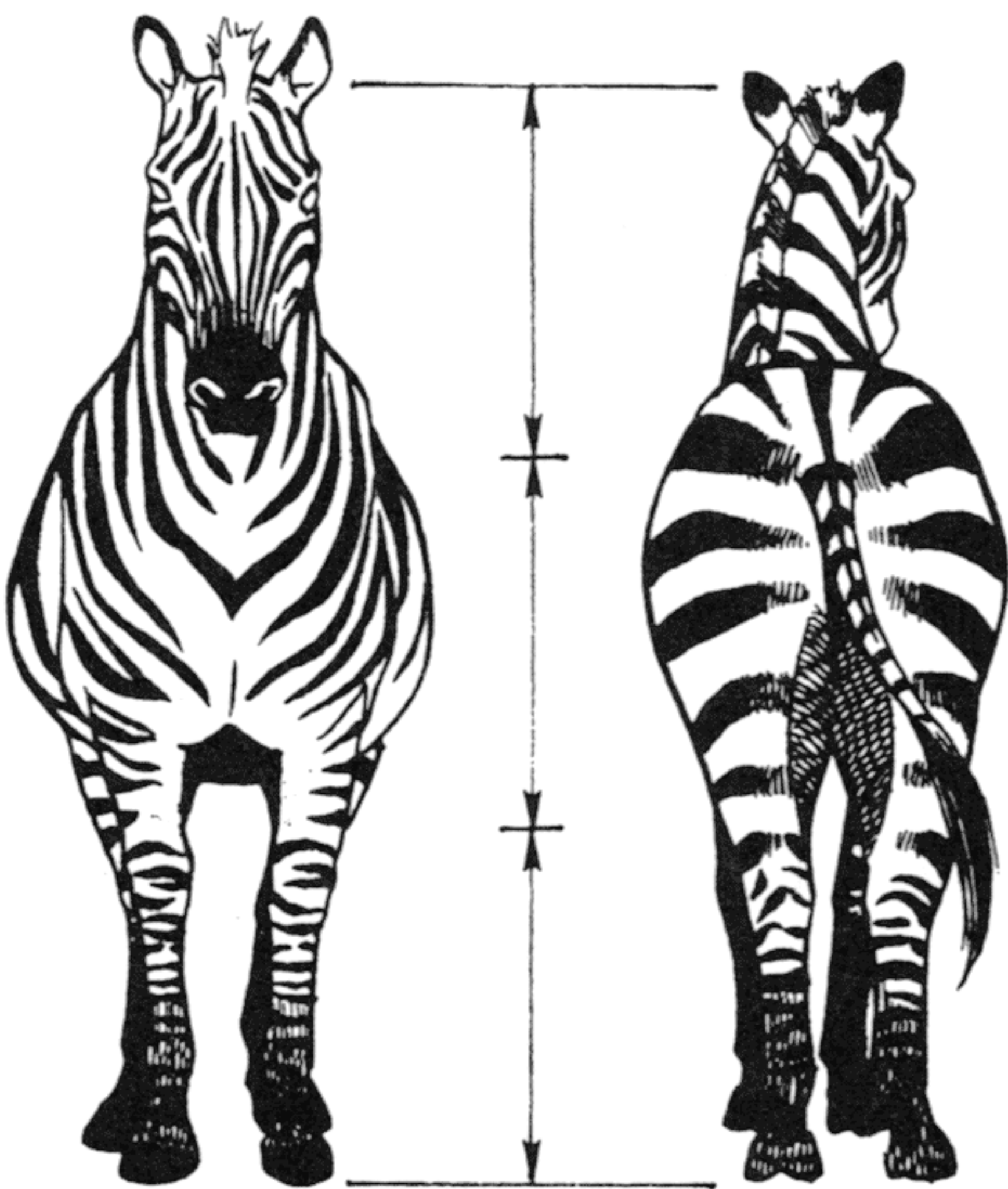


The zebra's cheeks are round and stick out more than the common horse.

The pattern of black stripes continues in the zebra's mane.



The tail is cord-like with the tip reminiscent of a brush with bristles.



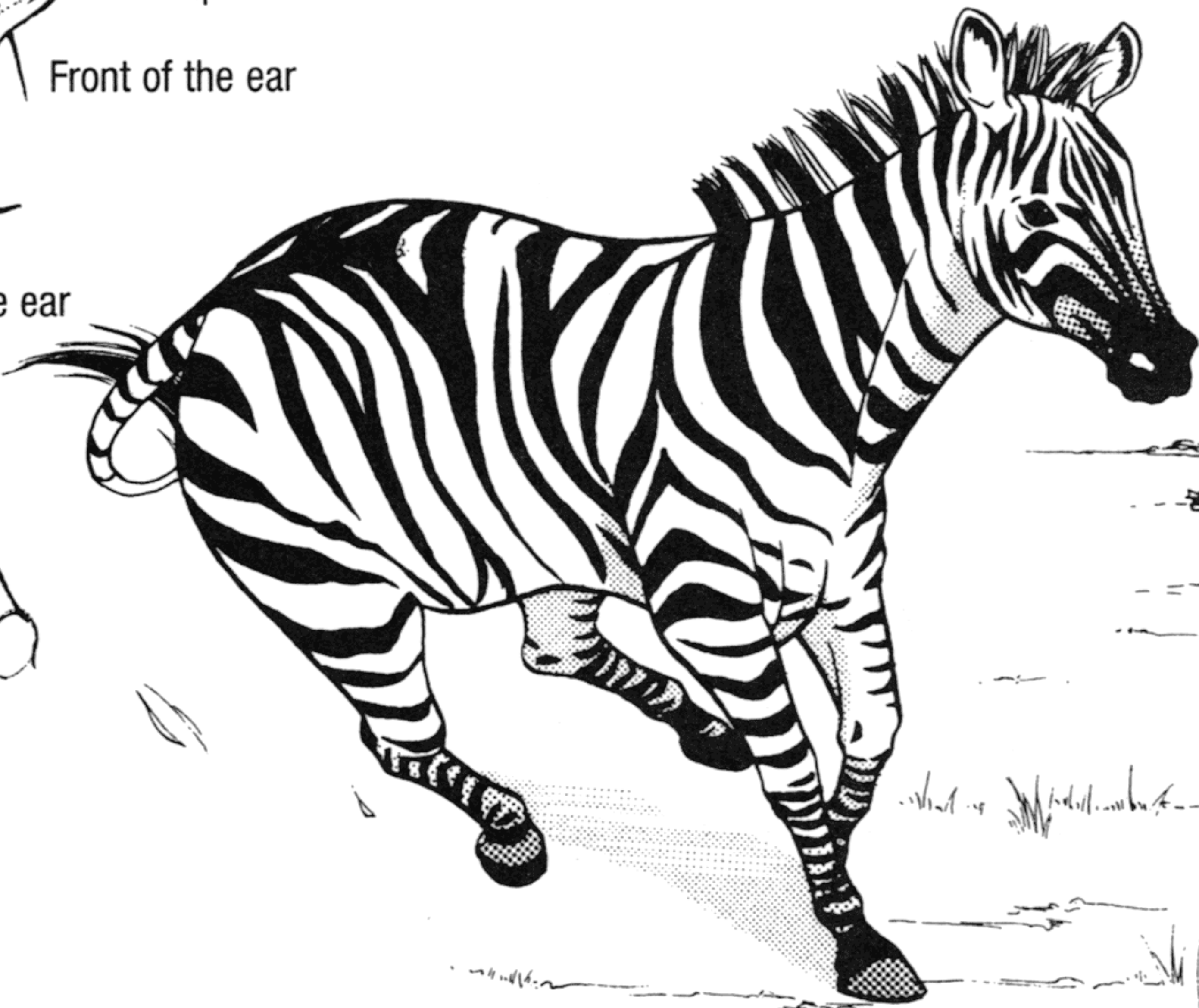
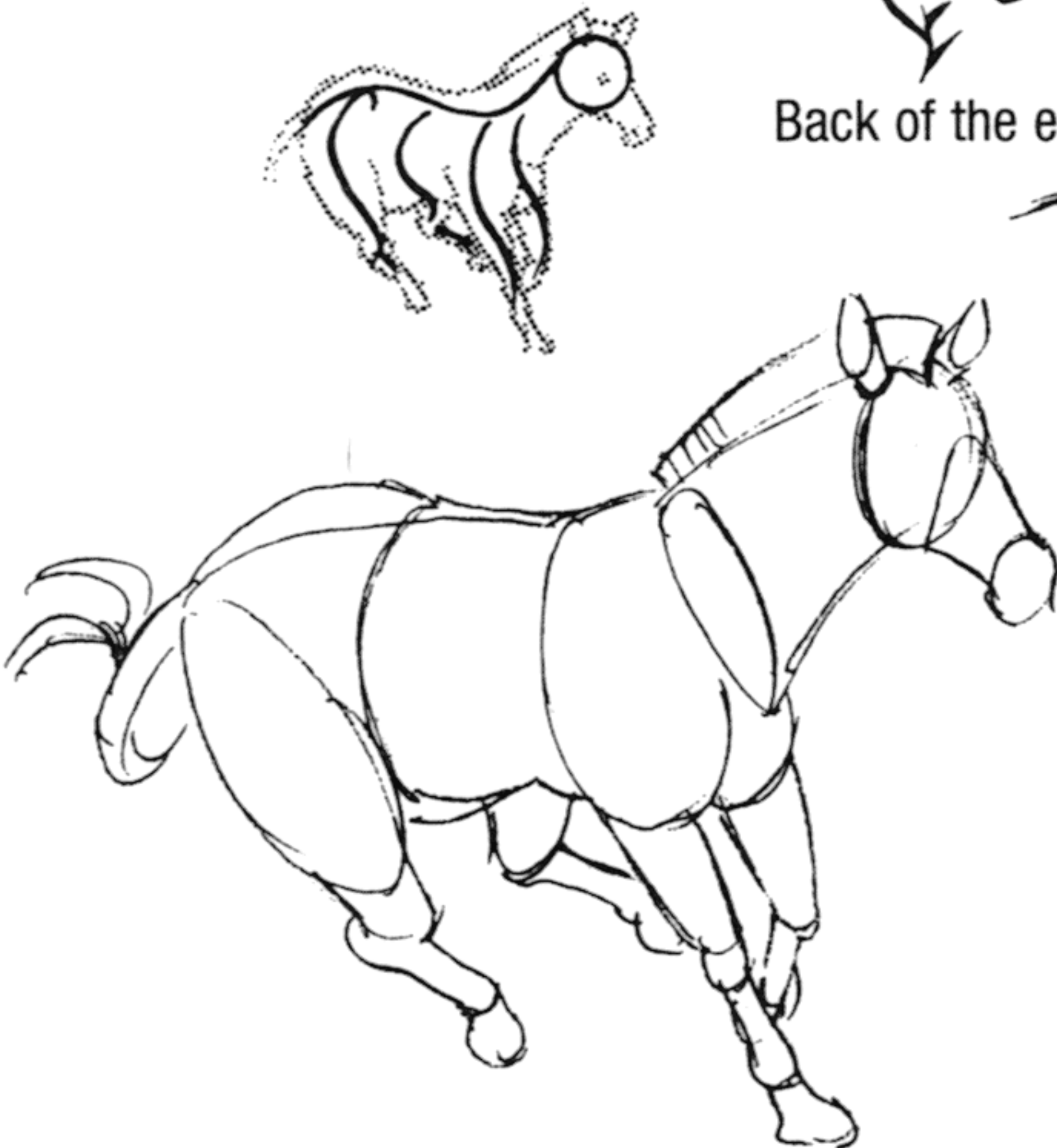
Ear



The ear is rhomboid in shape.

Front of the ear

Back of the ear





Giraffes

The giraffe has a protuberance on its forehead.

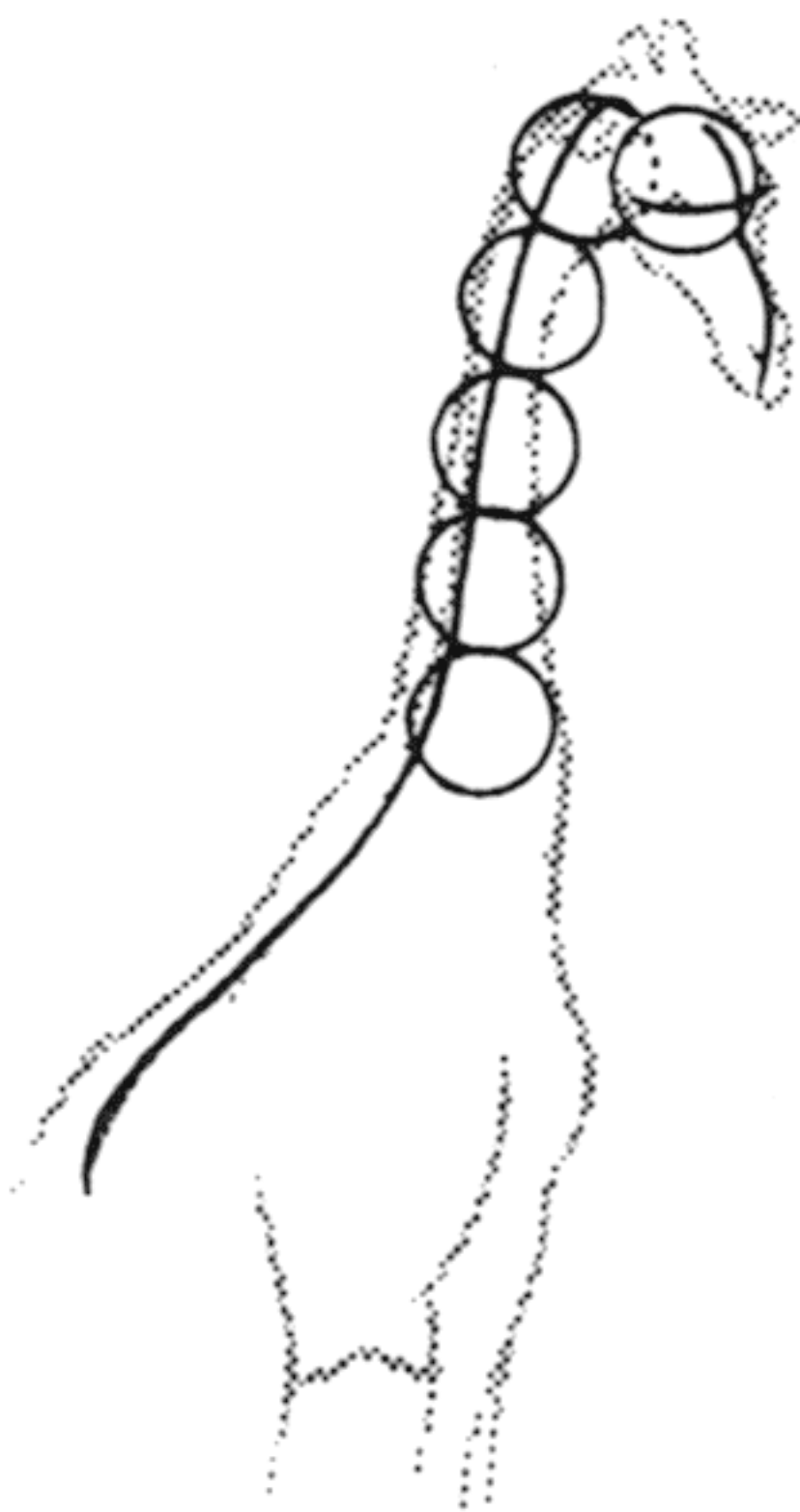
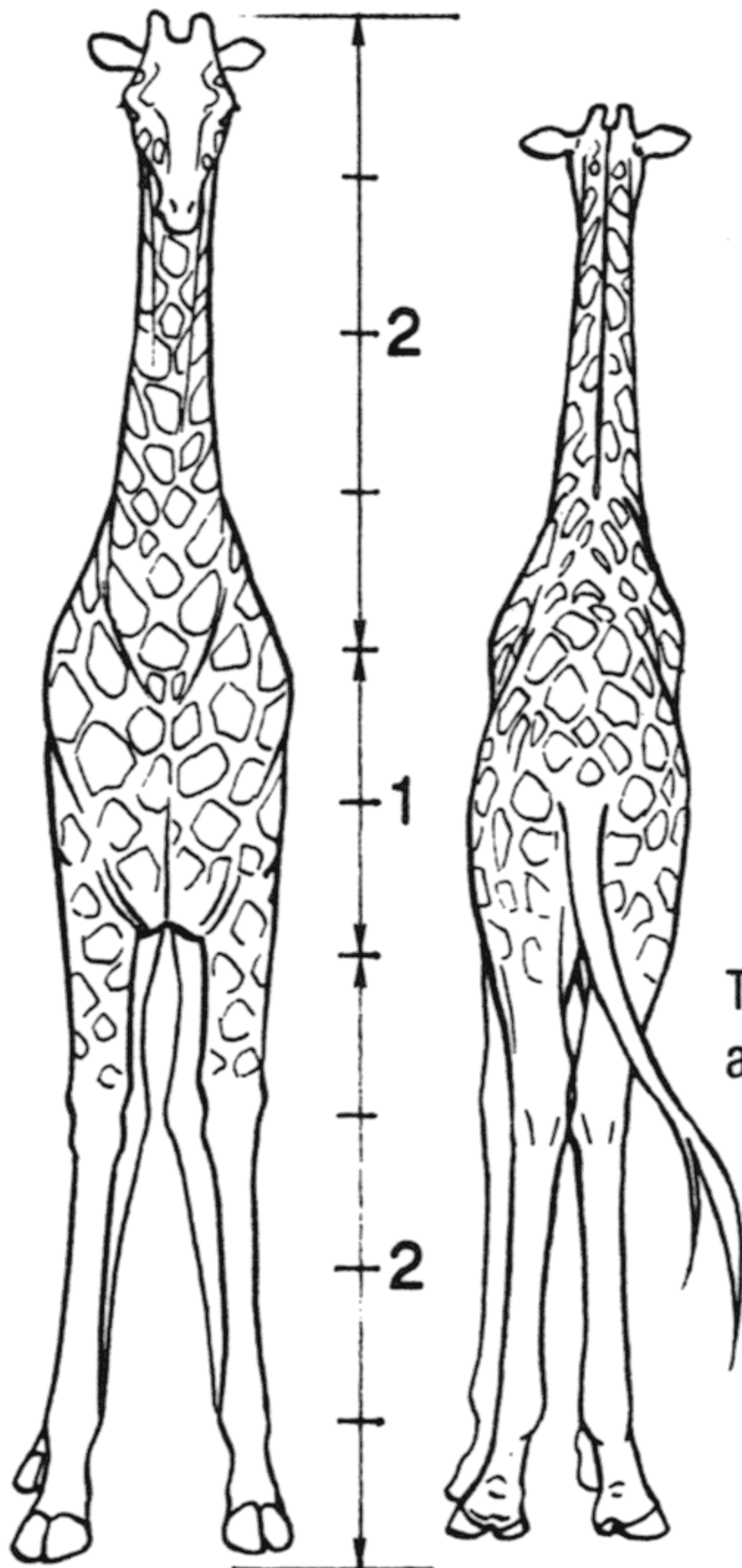
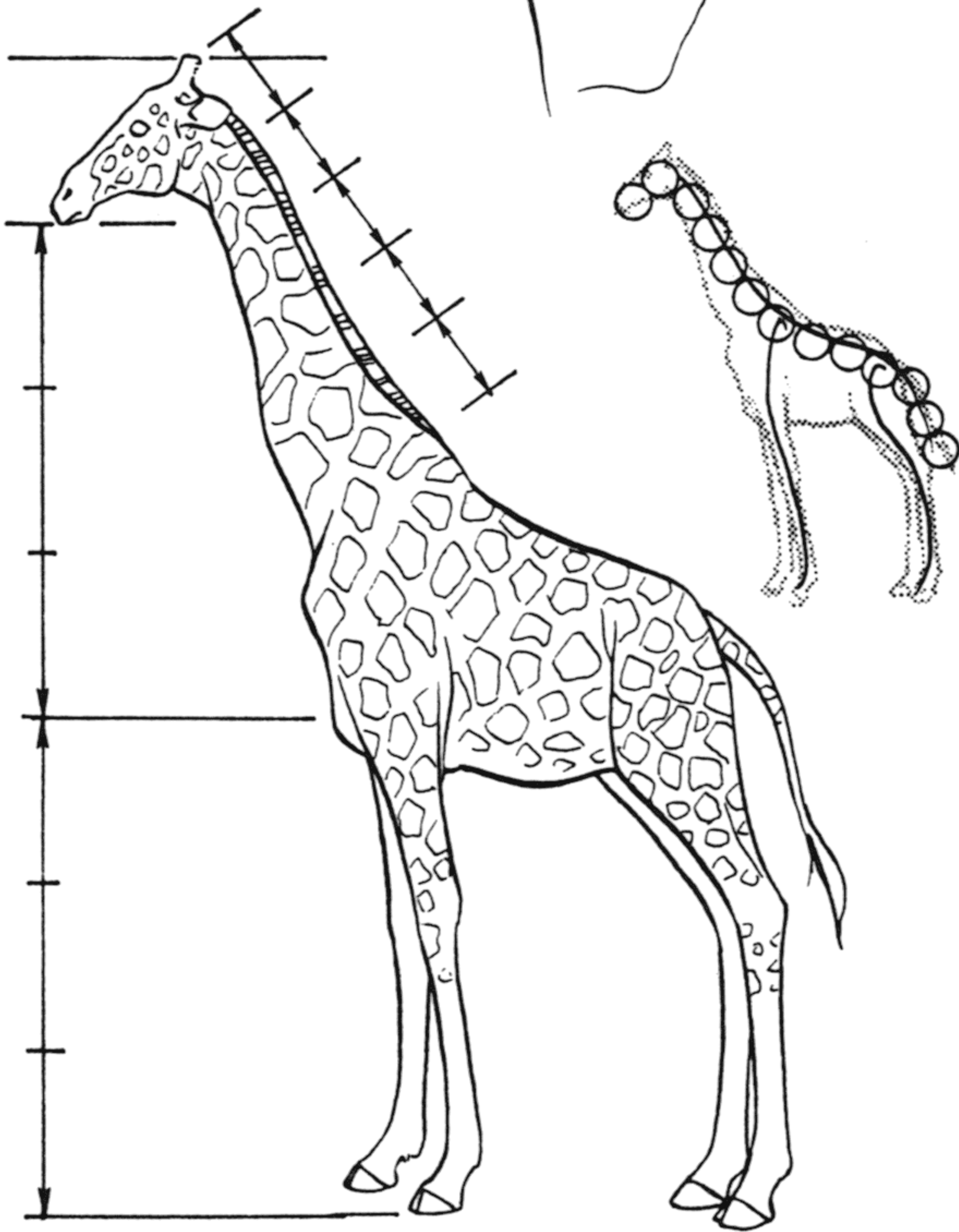
The eyes slant downward when seen in profile.

The ears are shaped like long scoops.

The face forms a vertically long hexagon.

Figure shows face looking down slightly

The head becomes foreshortened when looking upward.



The tail is as long as the neck.

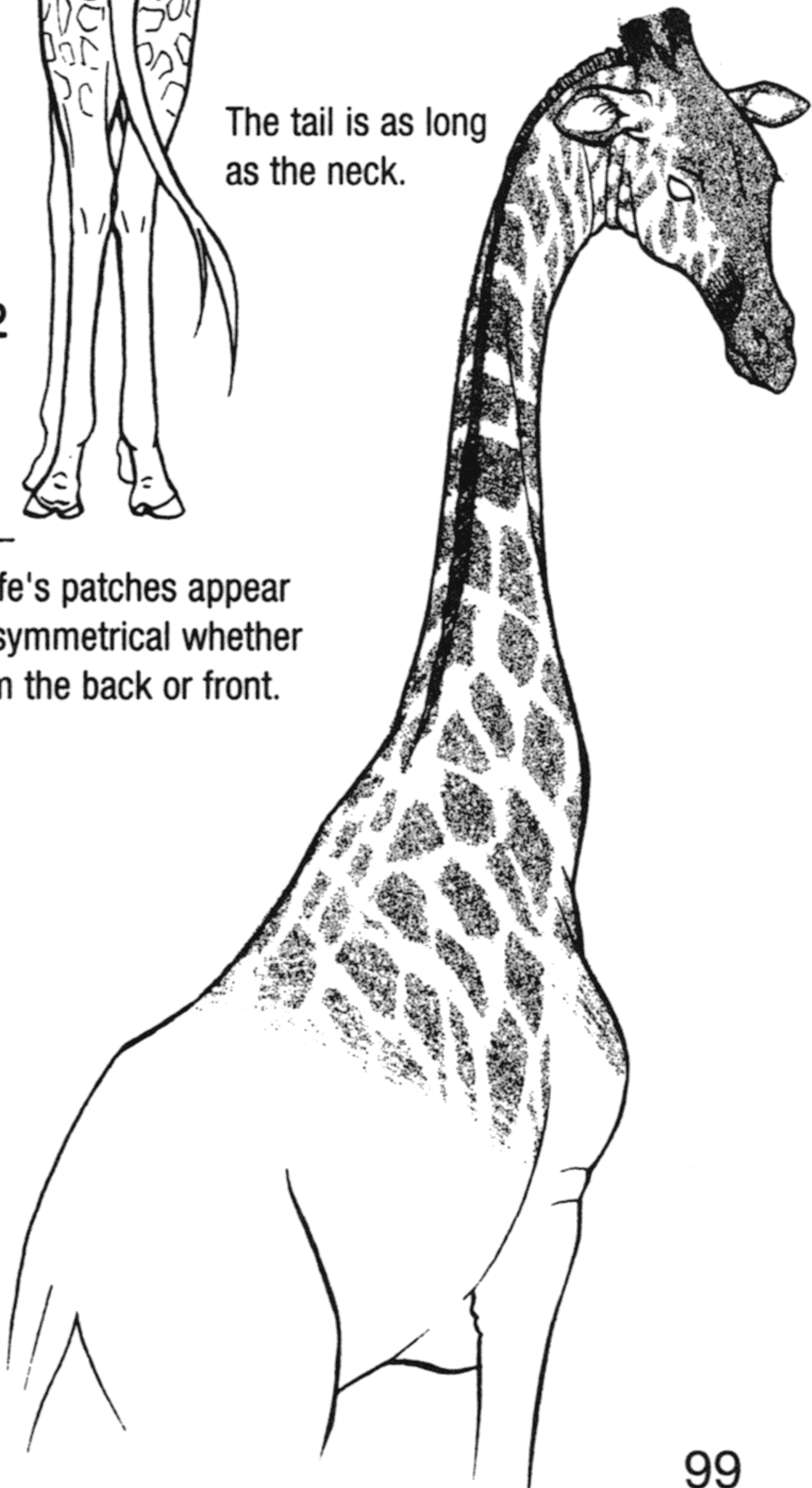
Long eyelashes

This line representing a fold of loose skin is distinctive to the giraffe.

The giraffe's patches appear virtually symmetrical whether seen from the back or front.

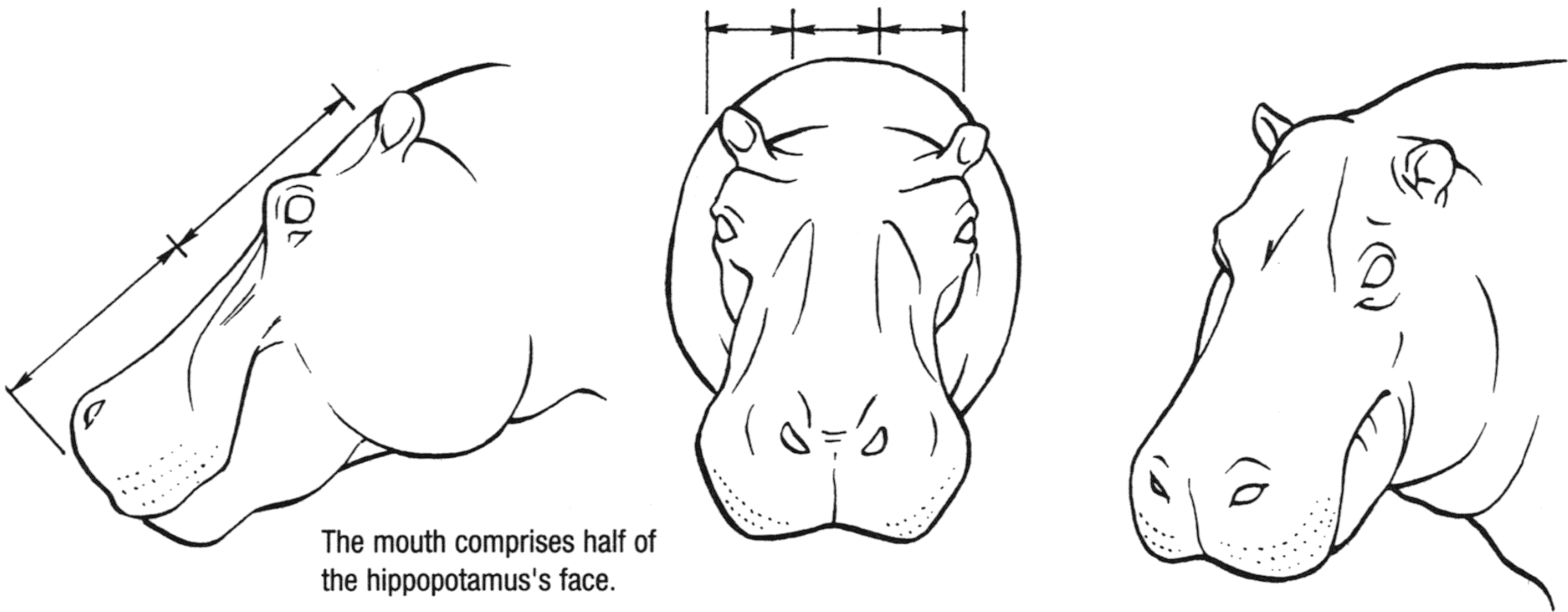
Cloven hoof

Sagging skin

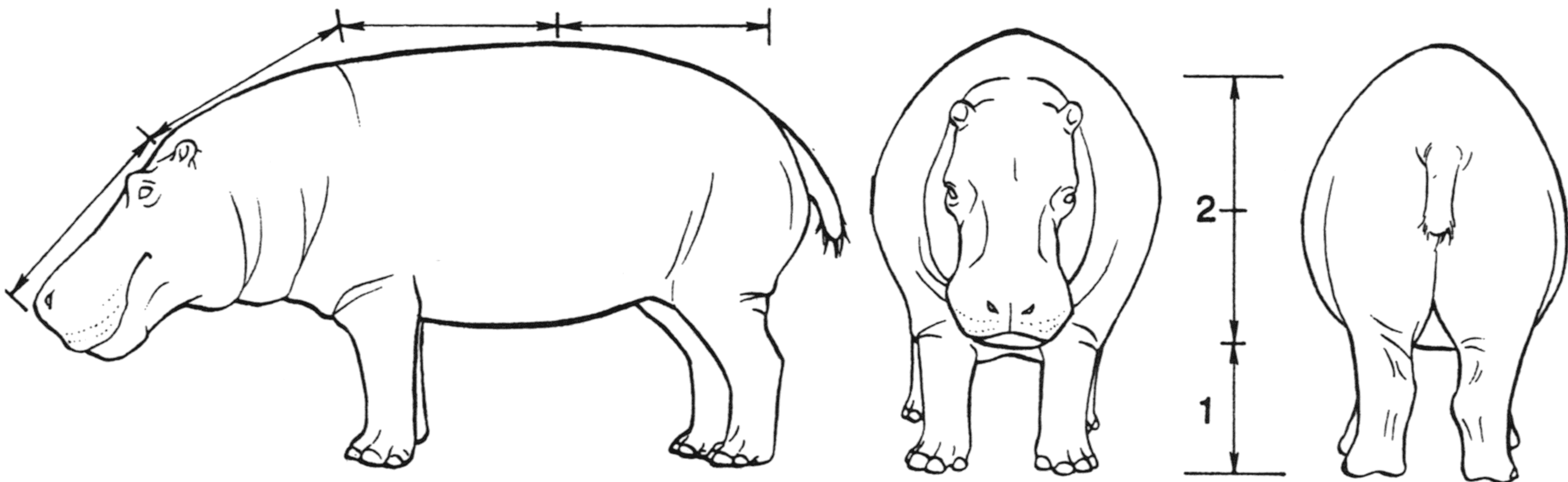




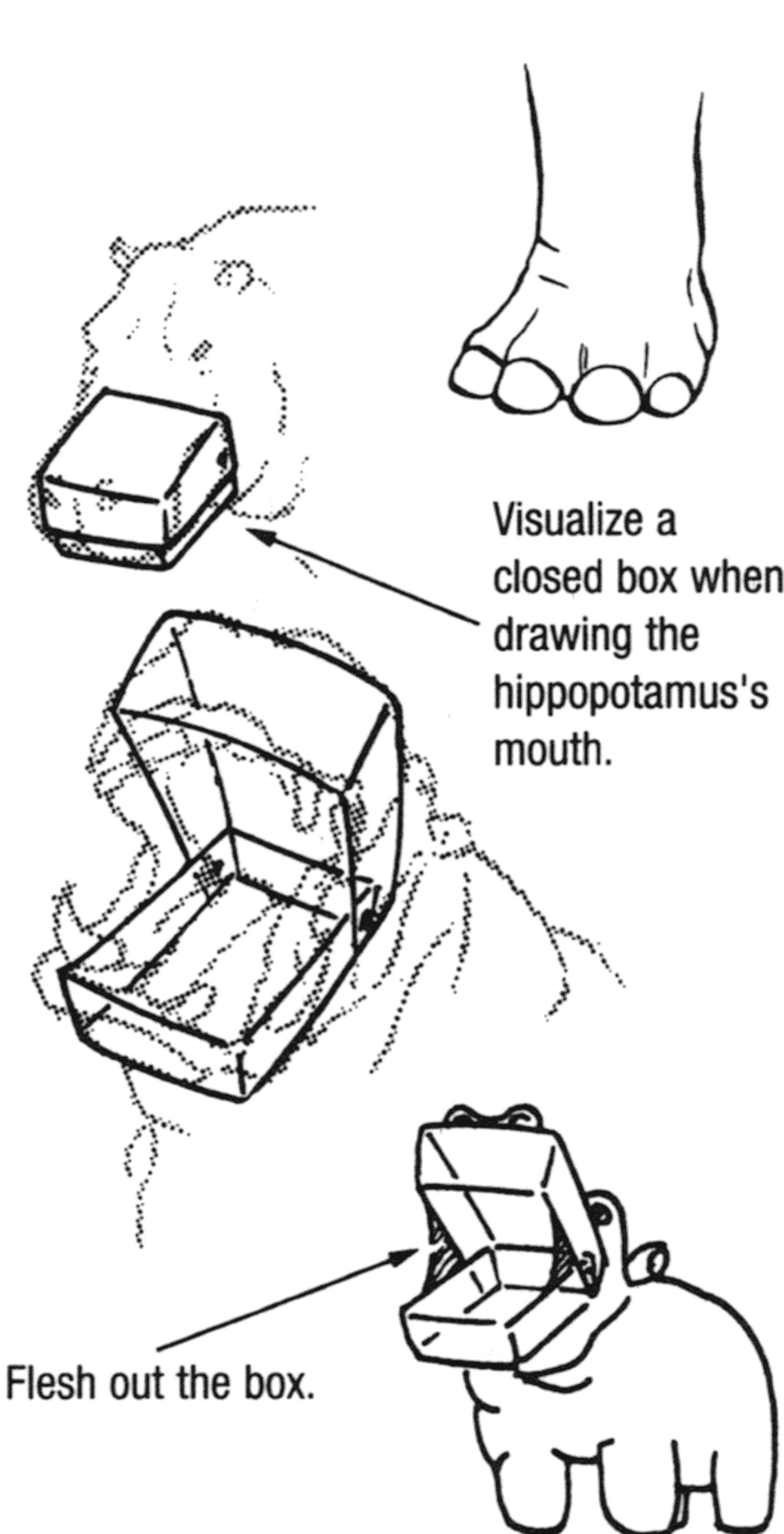
Hippos



The mouth comprises half of the hippopotamus's face.

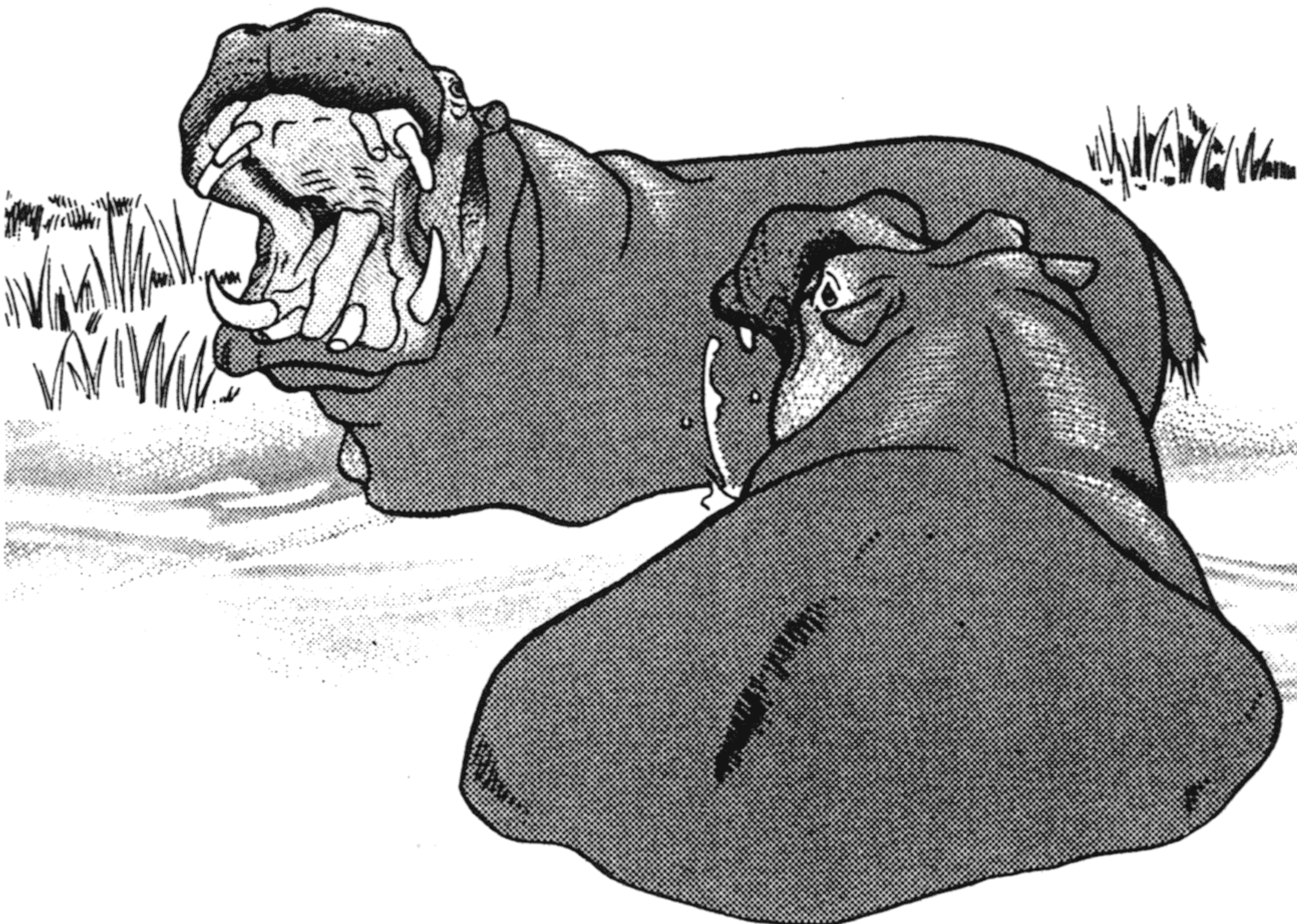


The feet are spaced approximately 1.5 feet apart.



Visualize a closed box when drawing the hippopotamus's mouth.

Flesh out the box.





# Elephants

The elephant's head is essentially a vertical ellipse whether viewing it from the side or straight on. I recommend drawing the Asian elephant's ears about half the size of the head.

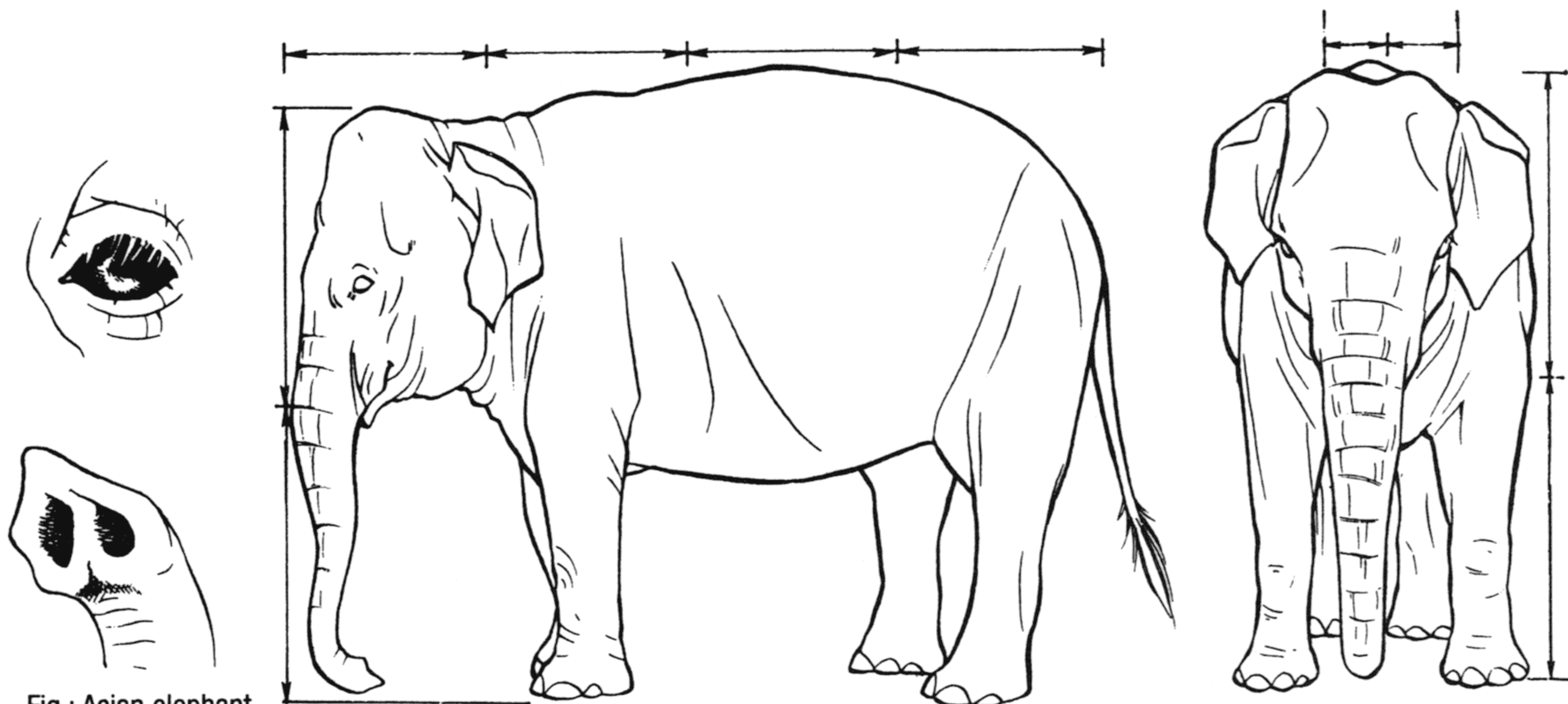
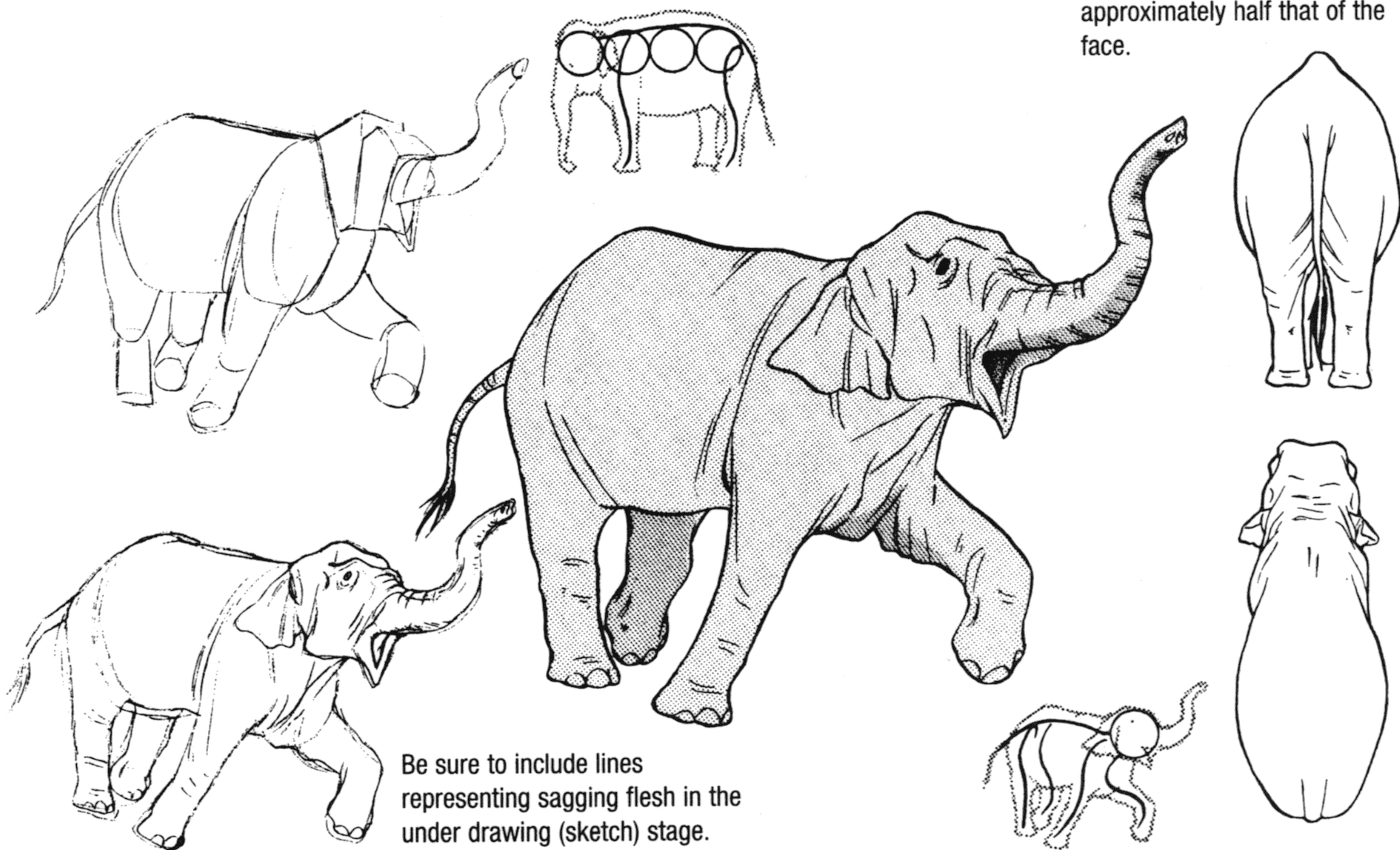


Fig.: Asian elephant

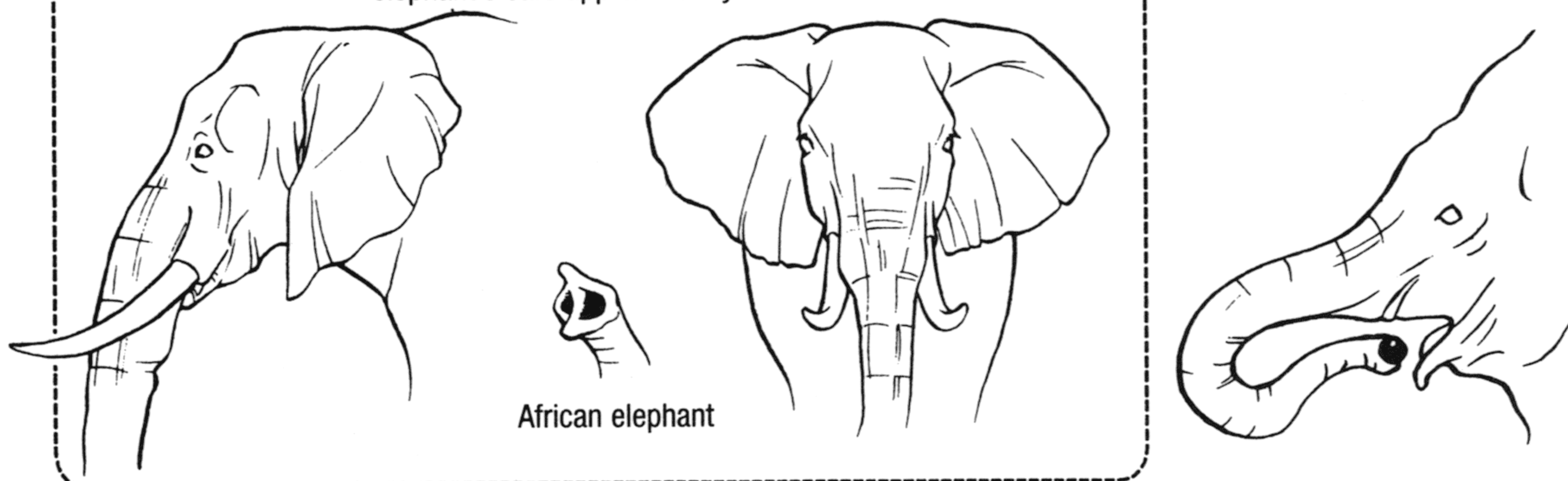
The trunk's width is approximately half that of the face.



Be sure to include lines representing sagging flesh in the under drawing (sketch) stage.

## African Elephants

A distinguishing feature of the species, draw the African elephant's ears approximately the same size as the head.

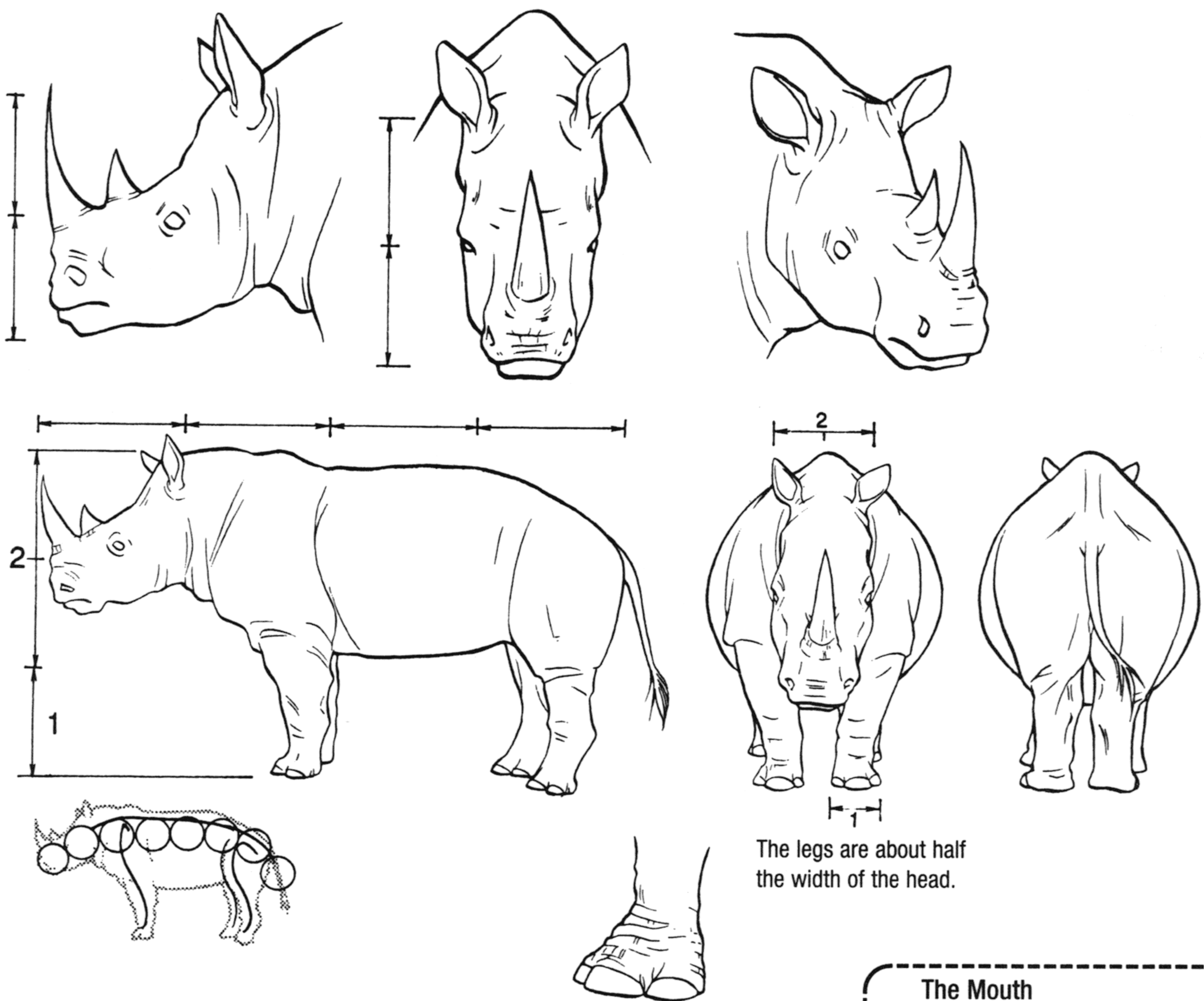


African elephant

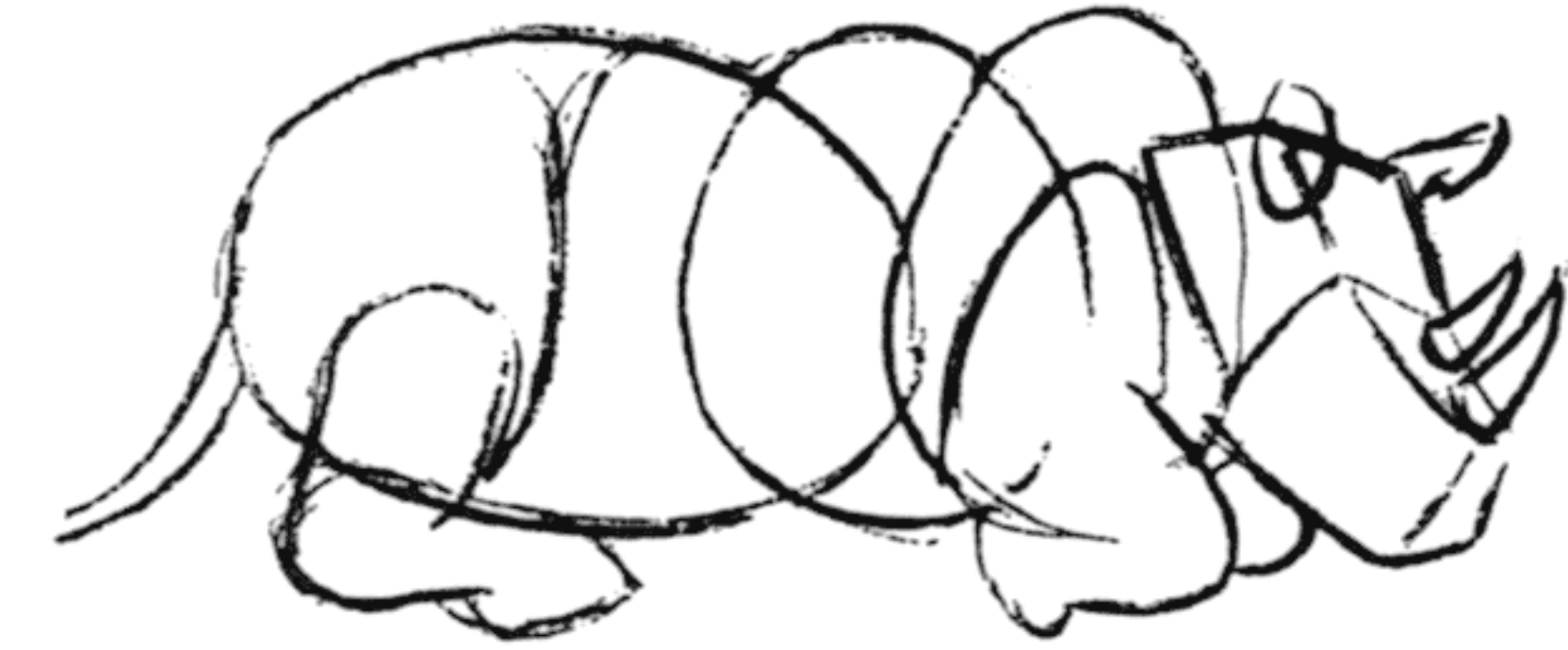


# Rhinoceroses

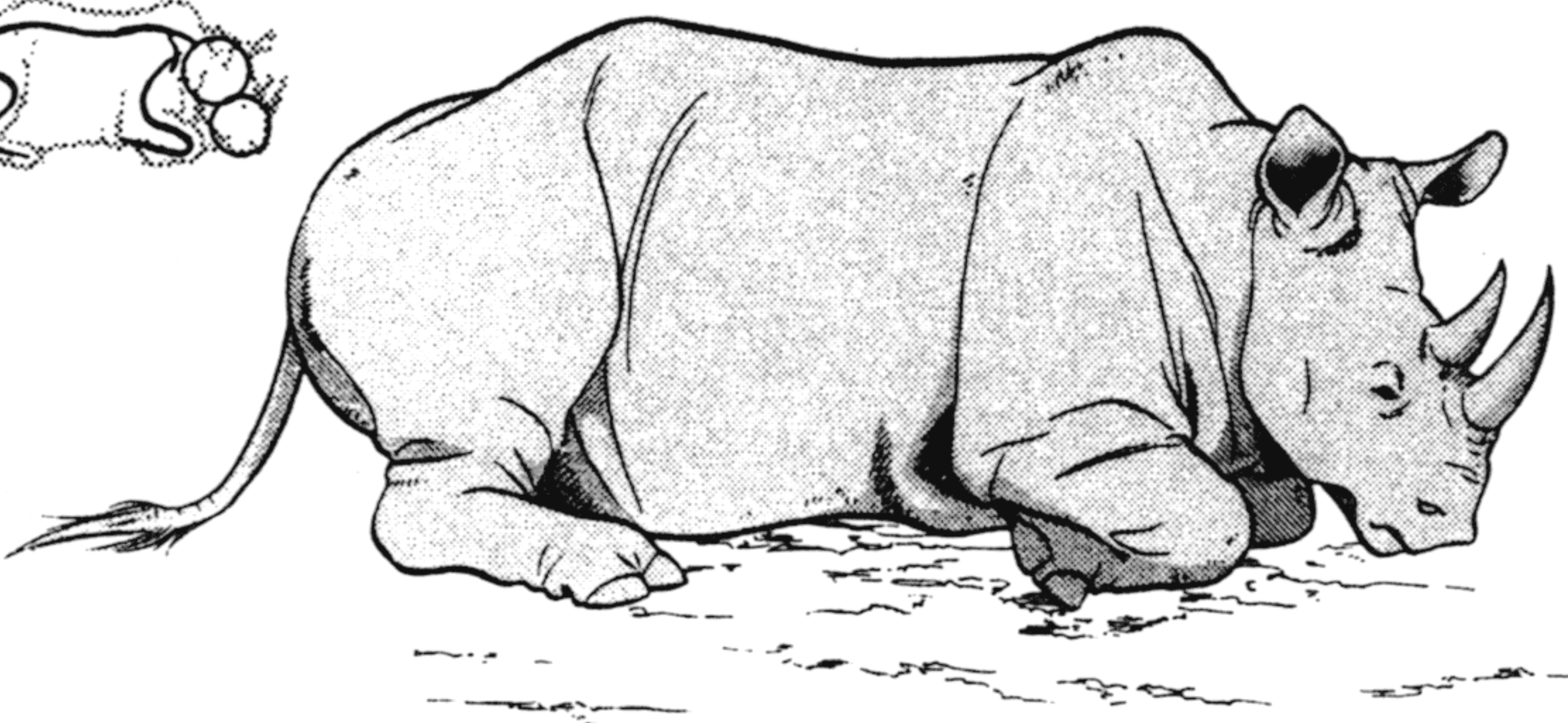
The rhinoceros should be drawn with a rectangular face and conical (trumpet-shaped) ears. The black rhino and white rhino closely resemble one another, but may be distinguished using the mouth.



The legs are about half the width of the head.



In the layout sketch, we see that the protruding shoulders are a distinctive trait. Use circles to define the shoulders, abdomen, and rump.



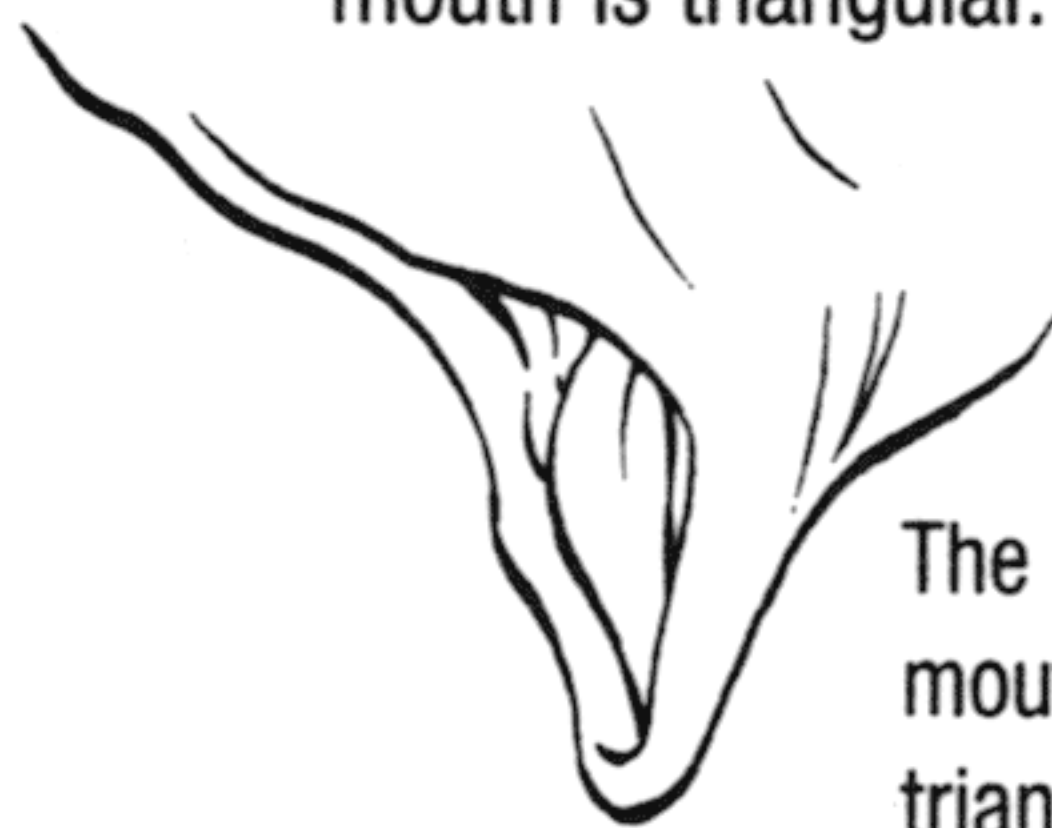
## The Mouth



The white rhinoceros's mouth is shaped like a horizontal rectangle.



The black rhinoceros's mouth is triangular.

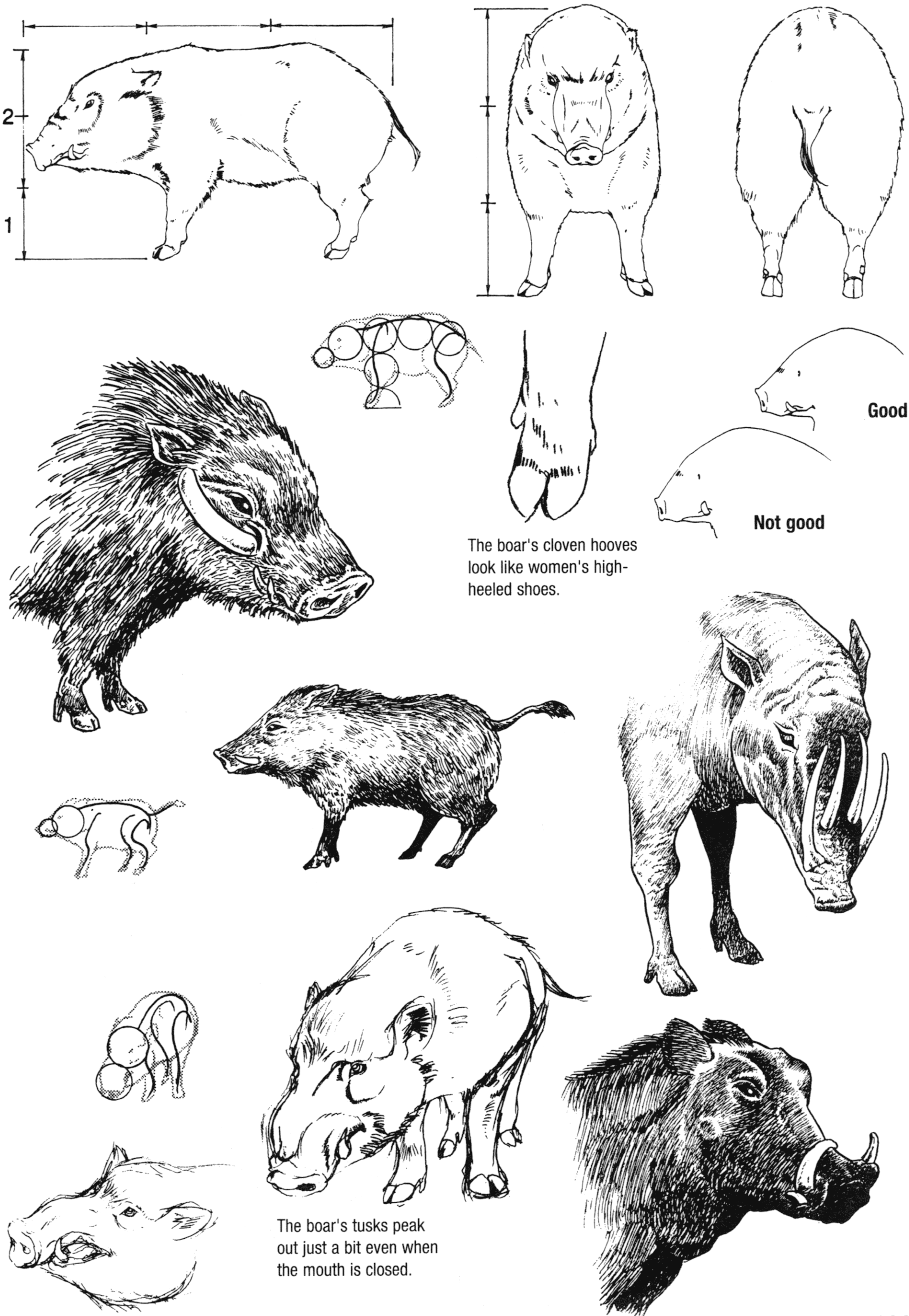


The elephant's mouth is also triangular in form.



Wild Boar

The tusks of some wild boars puncture their mouths. Boar tusks do not typically grow from the corner of their mouths, but rather close to the snout.

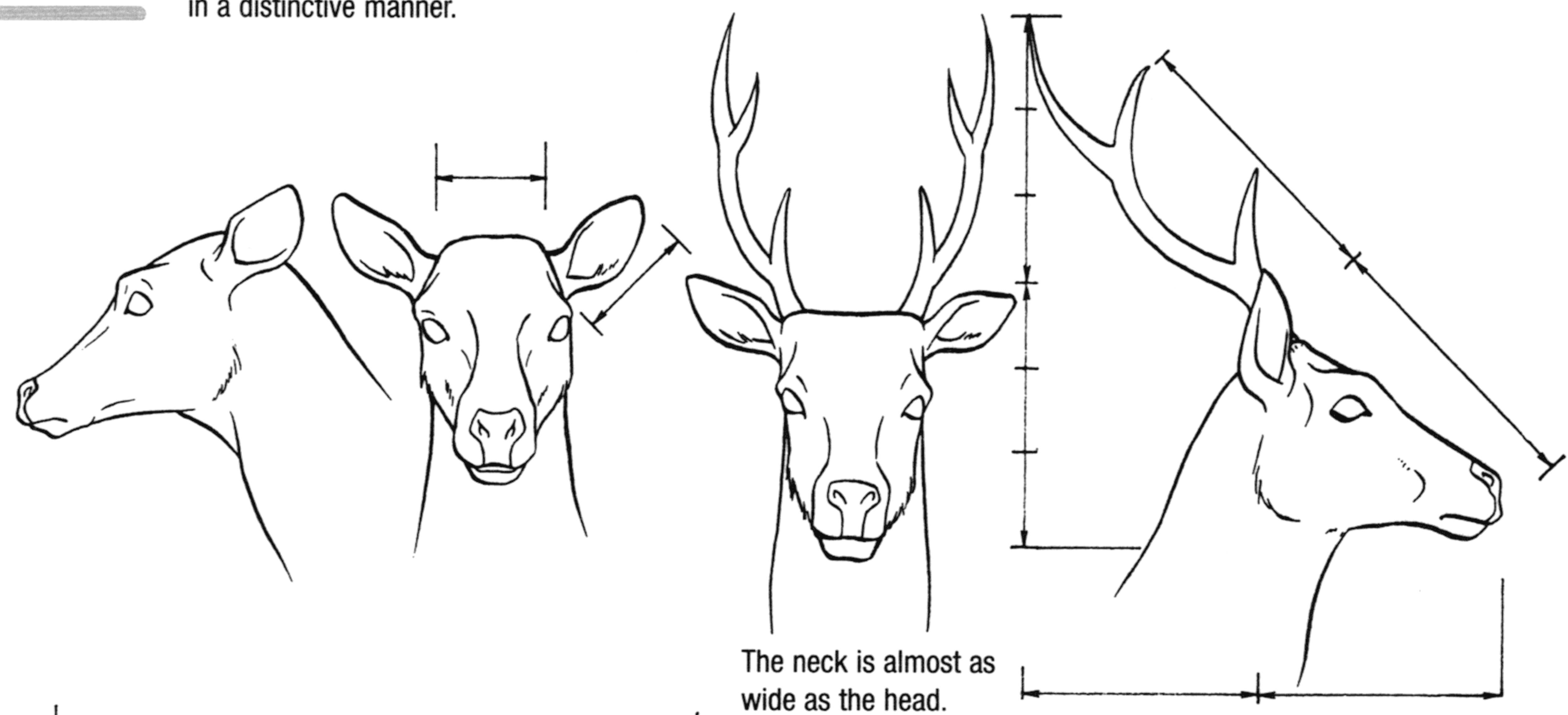


The boar's tusks peak out just a bit even when the mouth is closed.

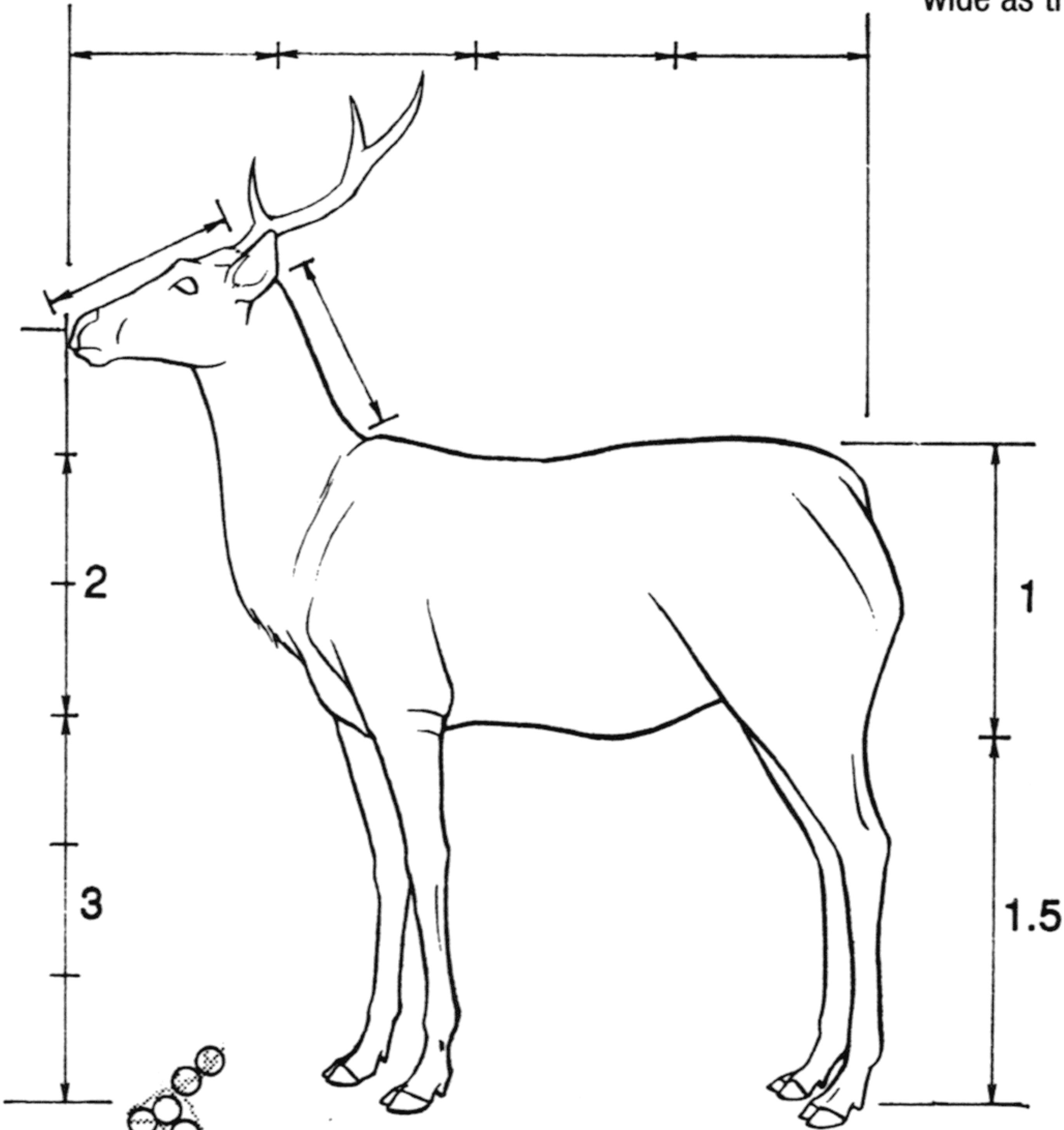


Deer

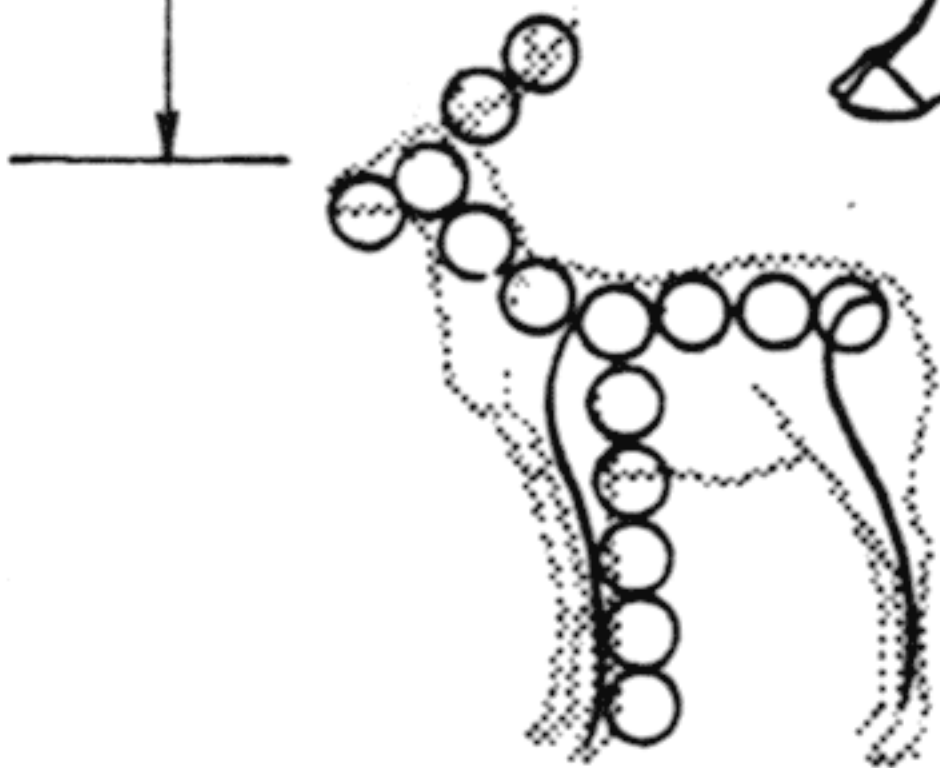
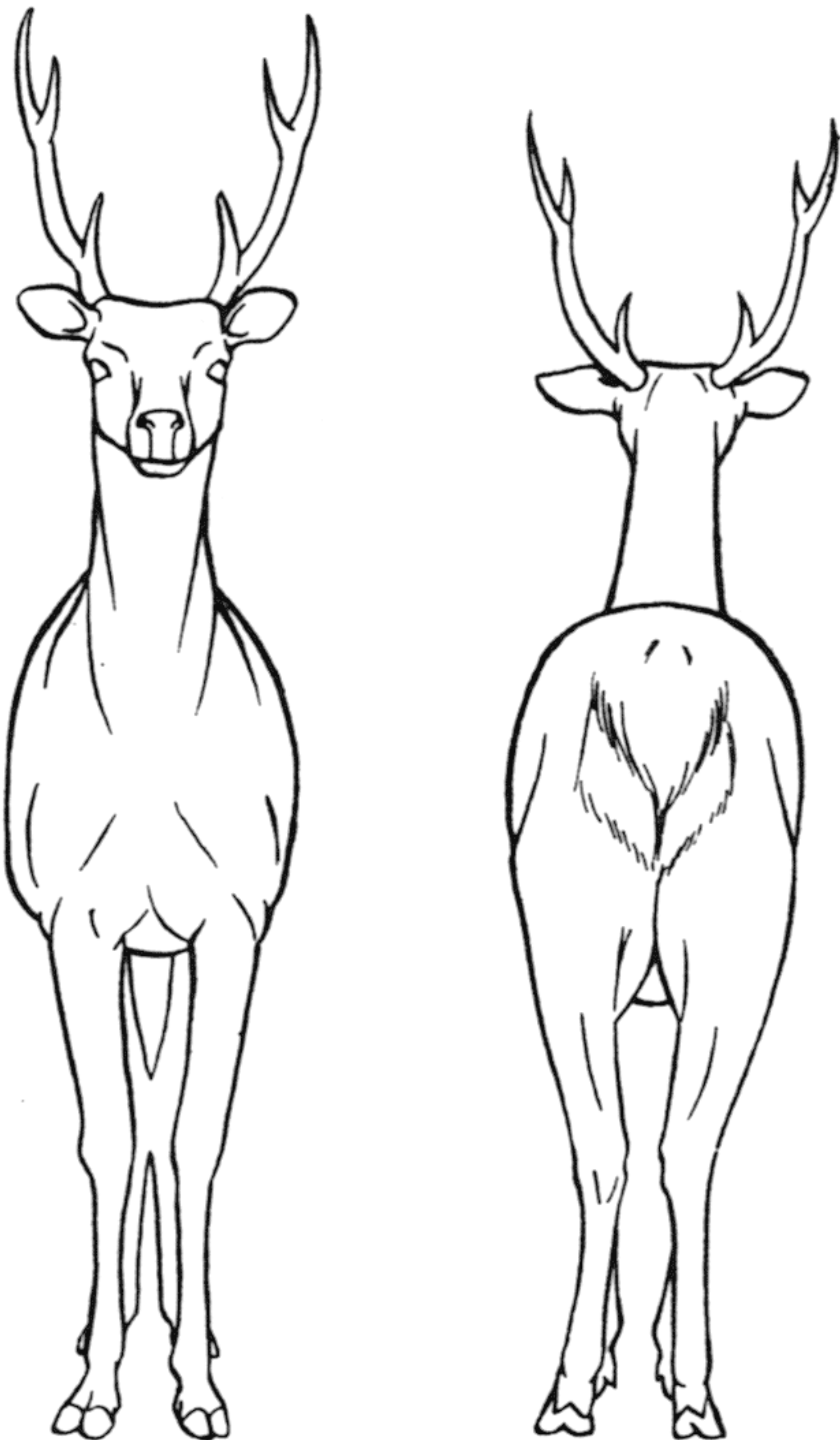
Deer's ears turn out to the side in a distinctive manner.



The neck is almost as wide as the head.



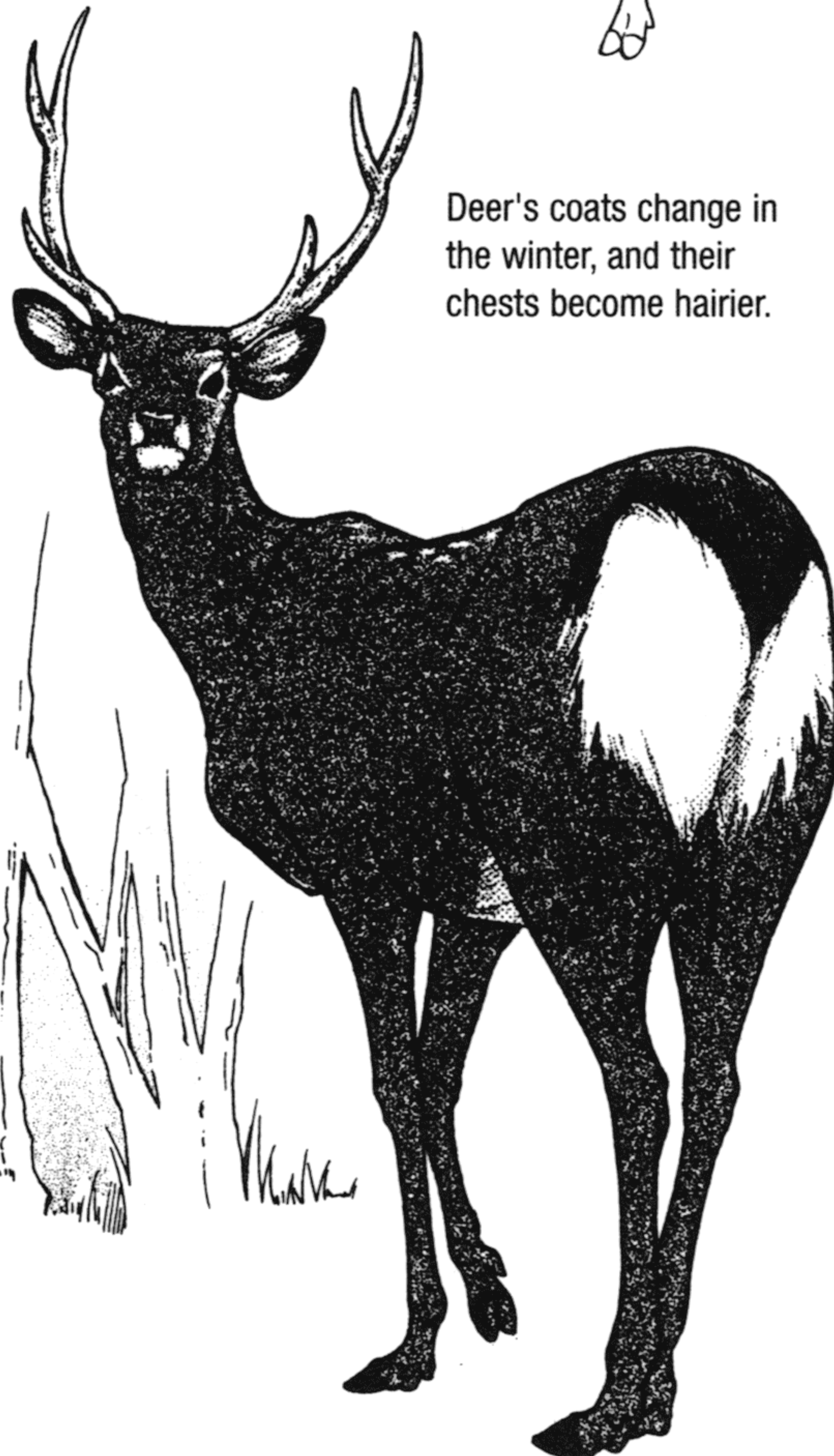
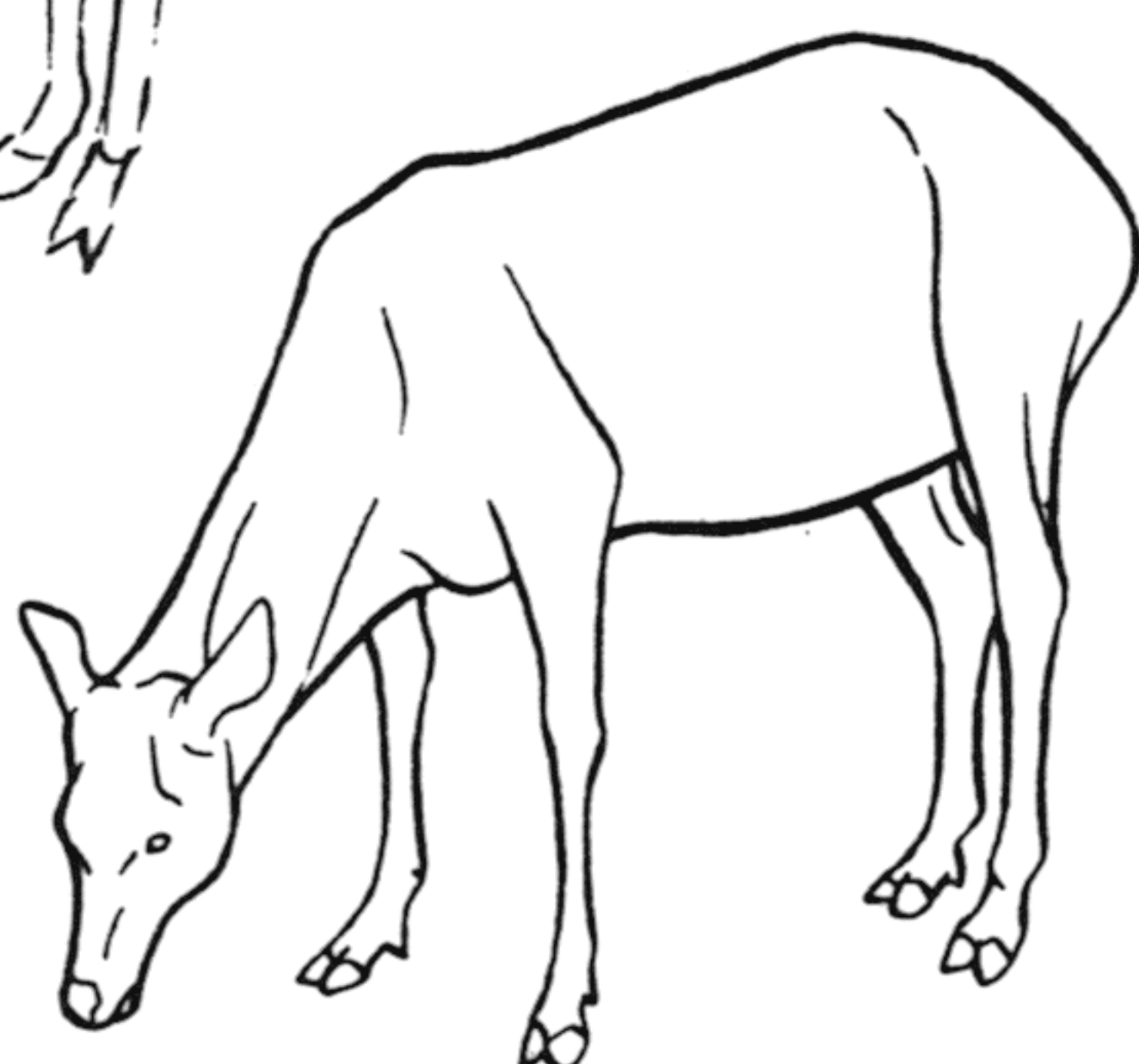
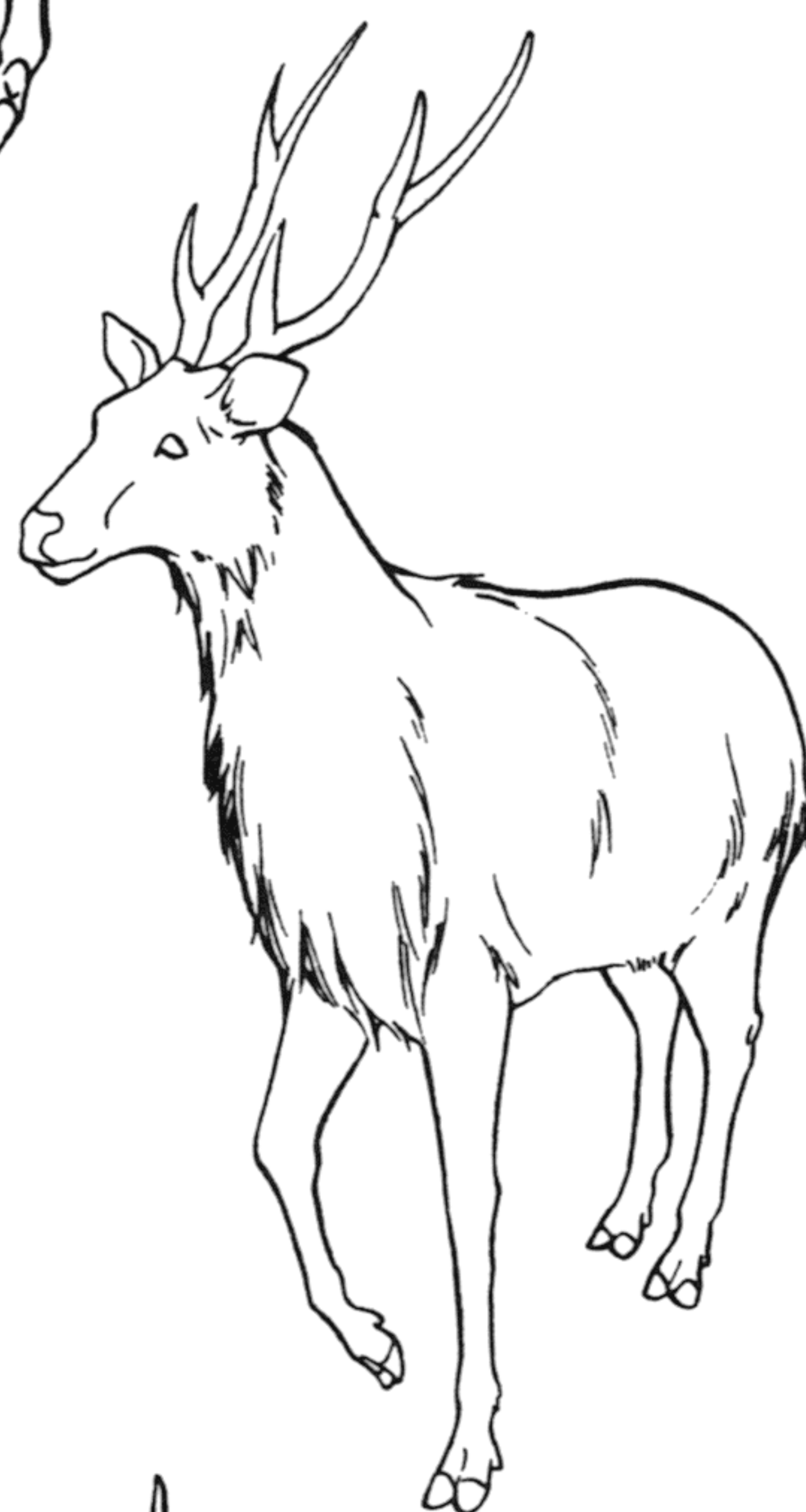
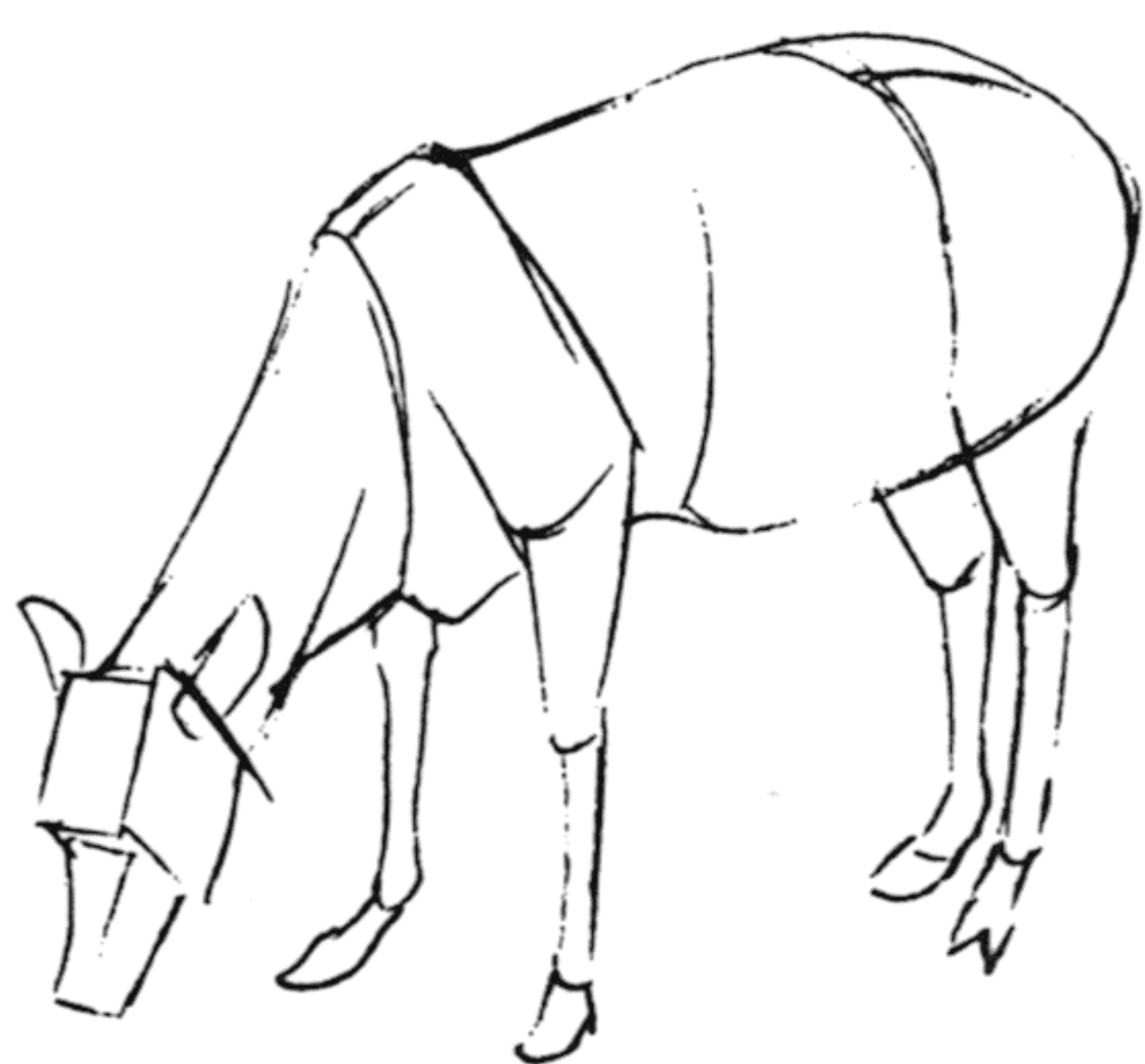
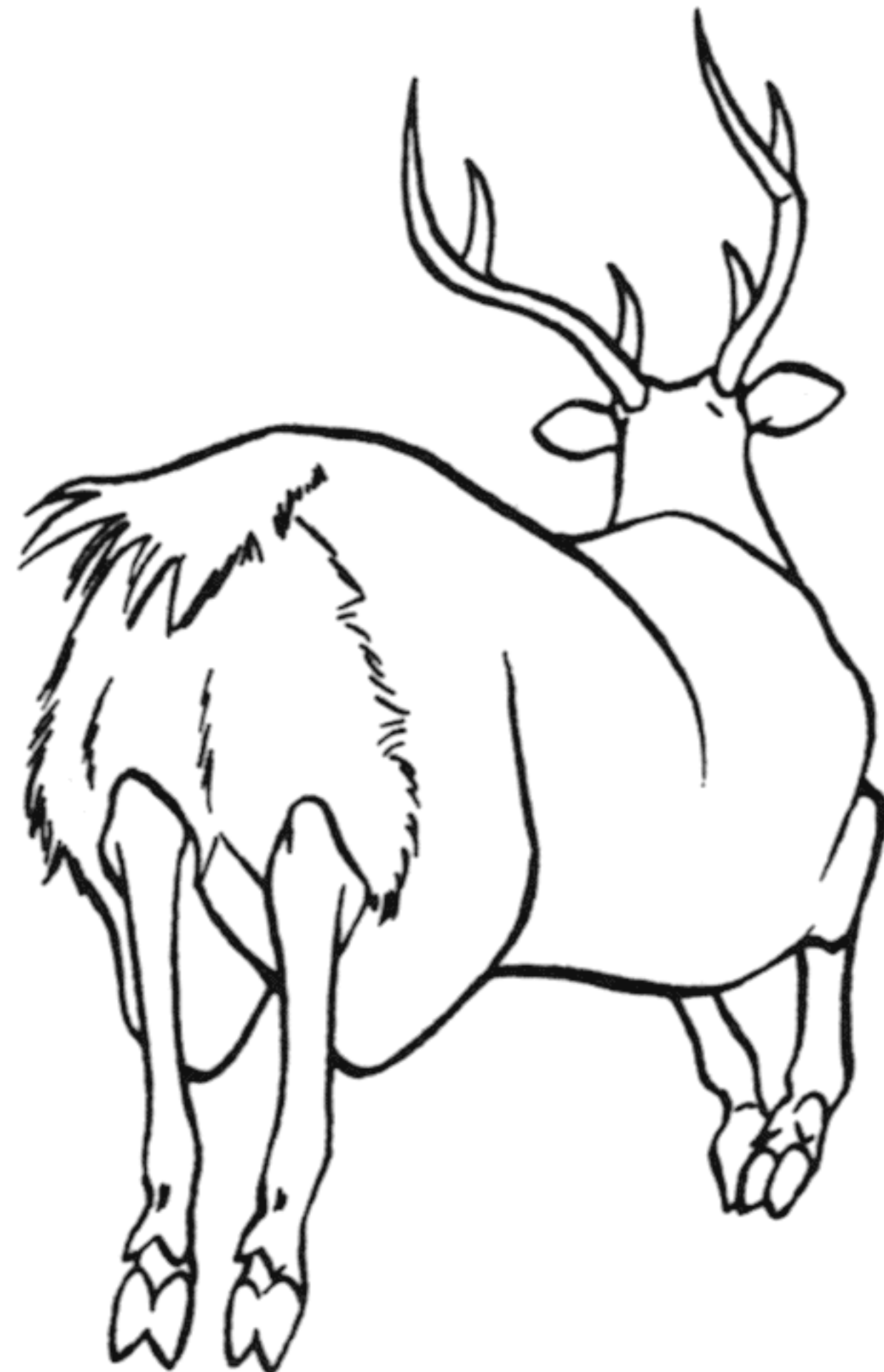
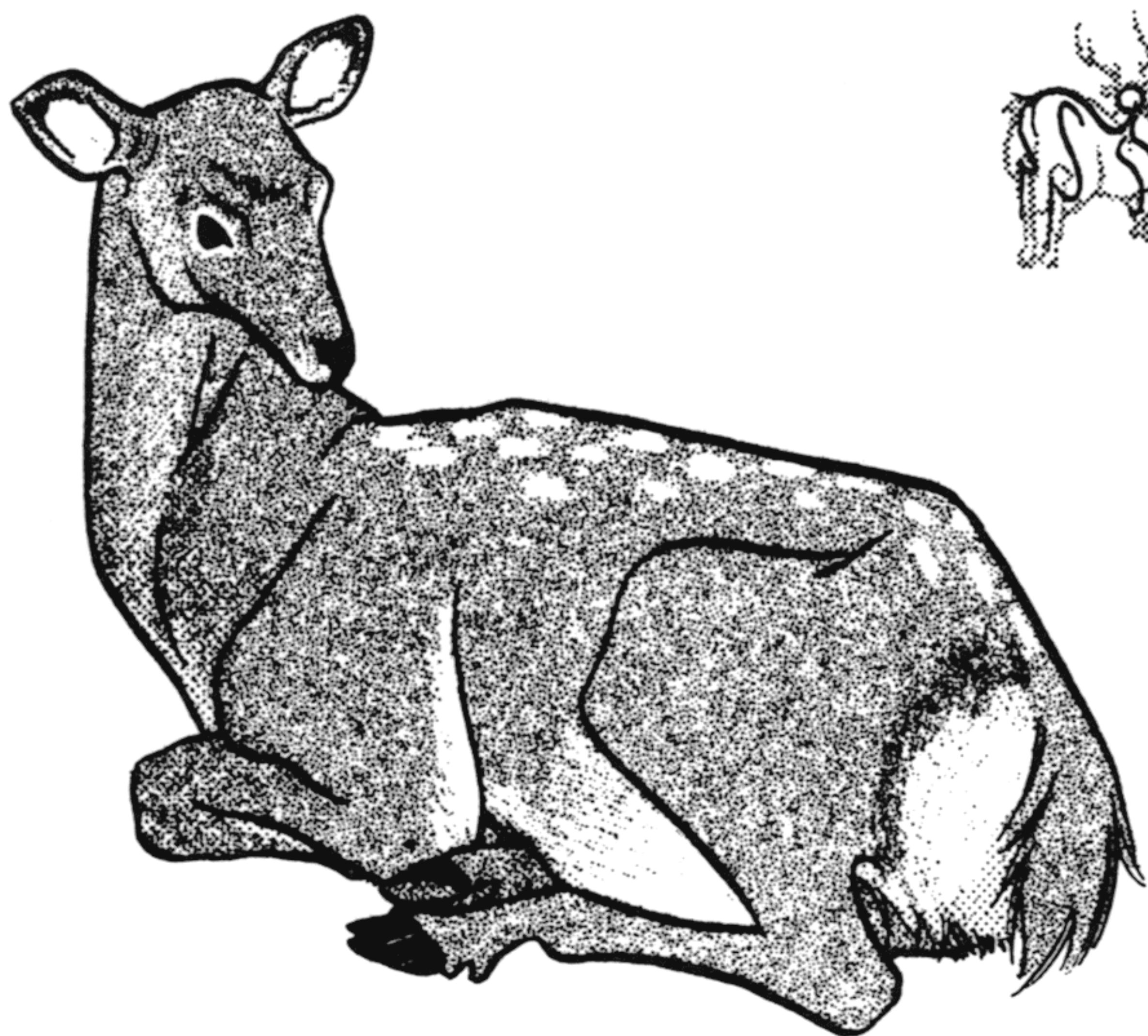
The legs are 1.5 times as long as the trunk is high.



Determine the ears' positions at the layout sketch stage.







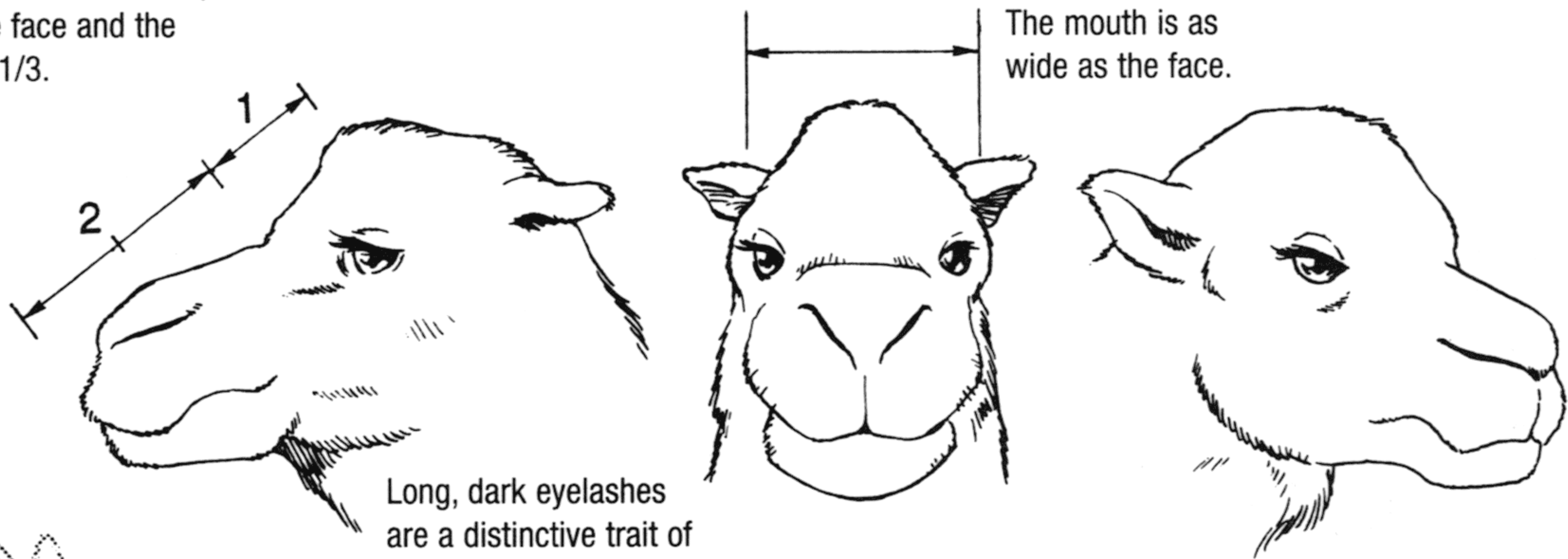
Deer's coats change in the winter, and their chests become hairier.



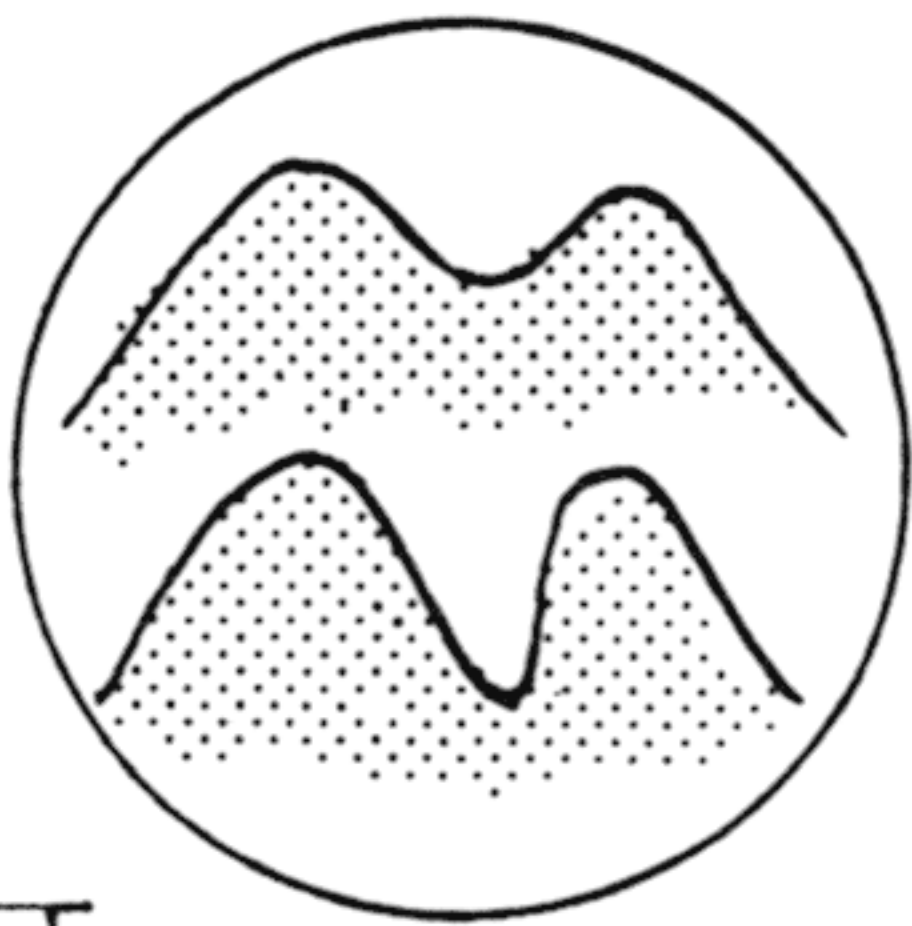


# Camel

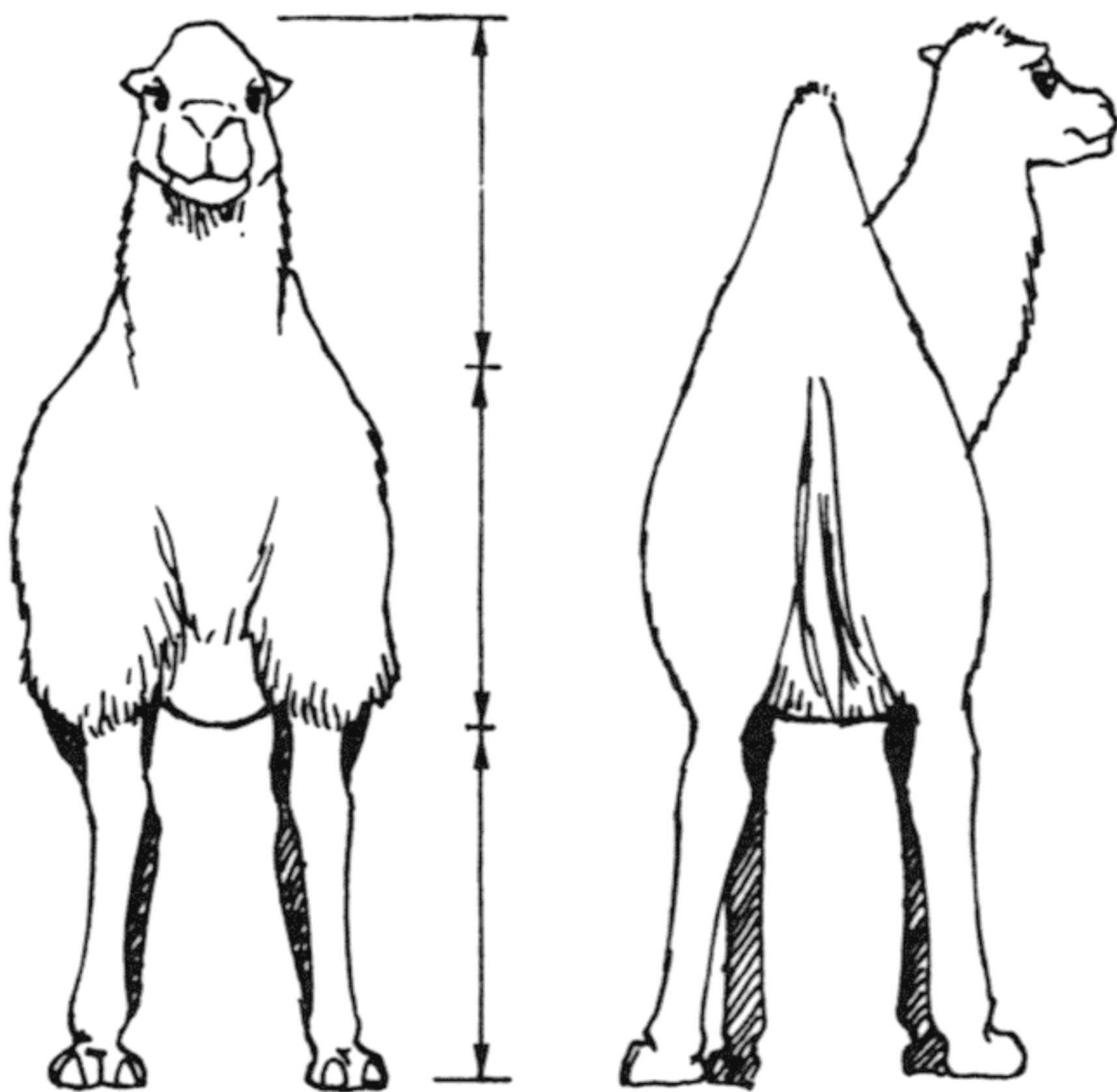
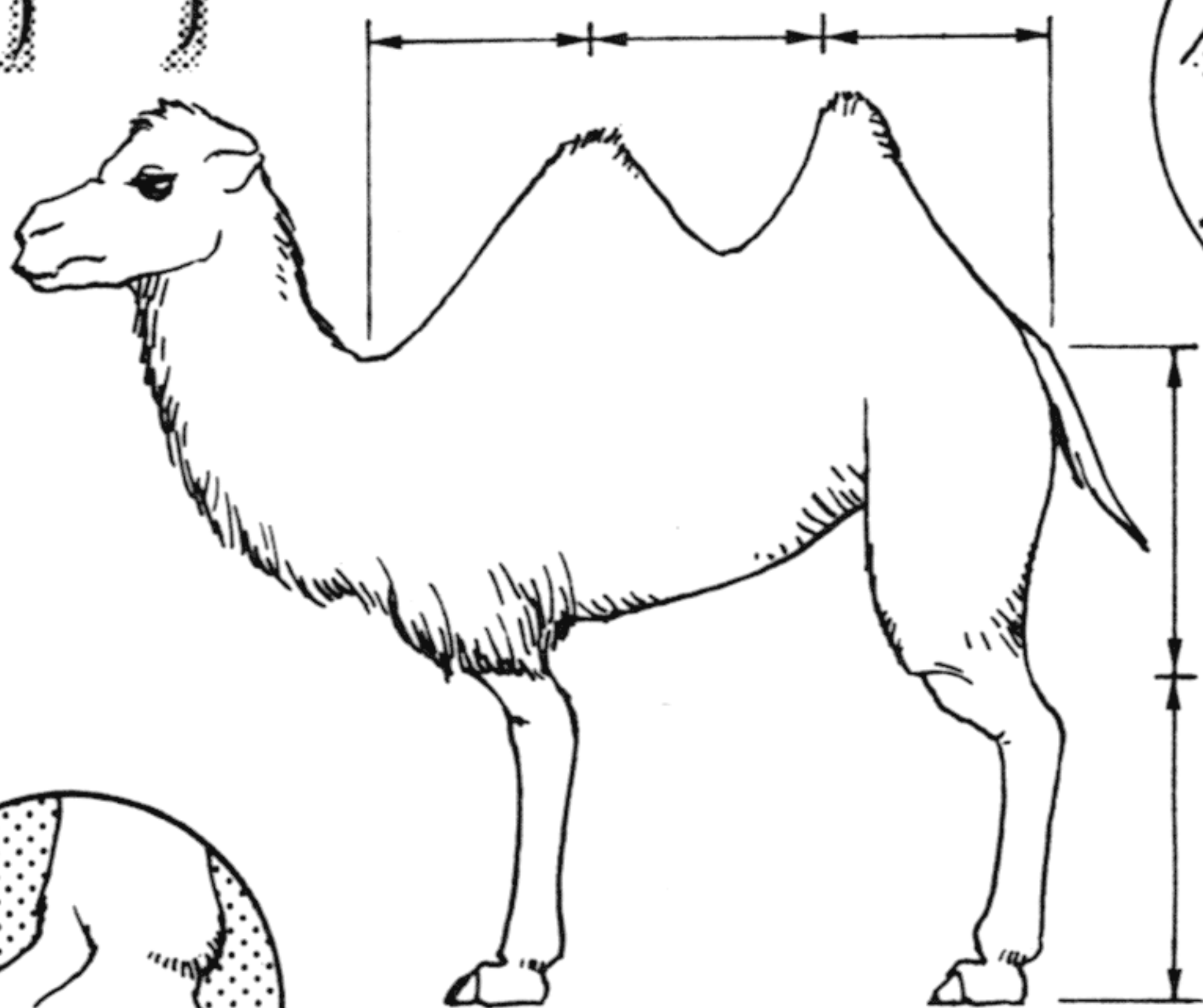
In profile, the snout occupies 2/3 of the face and the forehead 1/3.



Long, dark eyelashes are a distinctive trait of the camel.



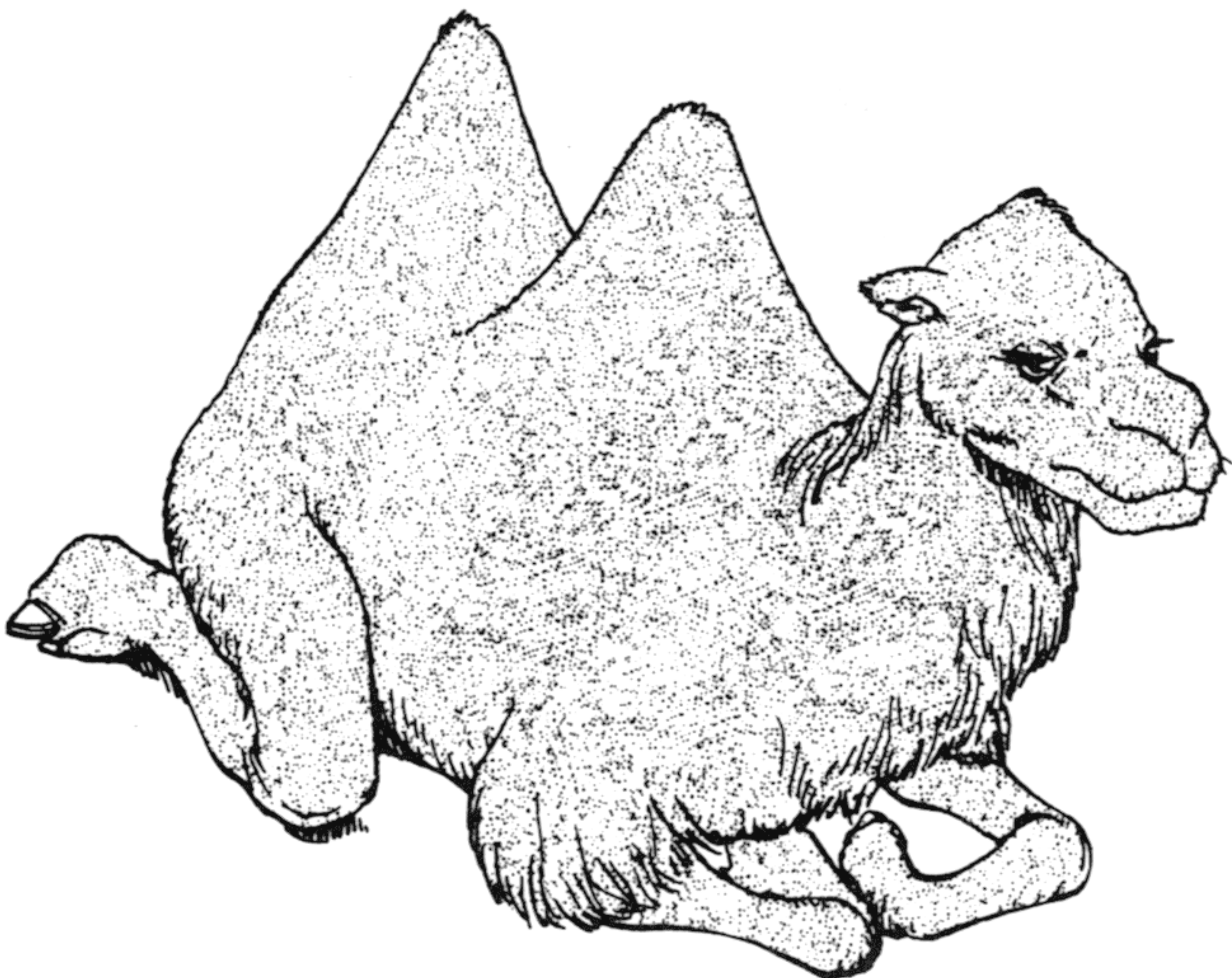
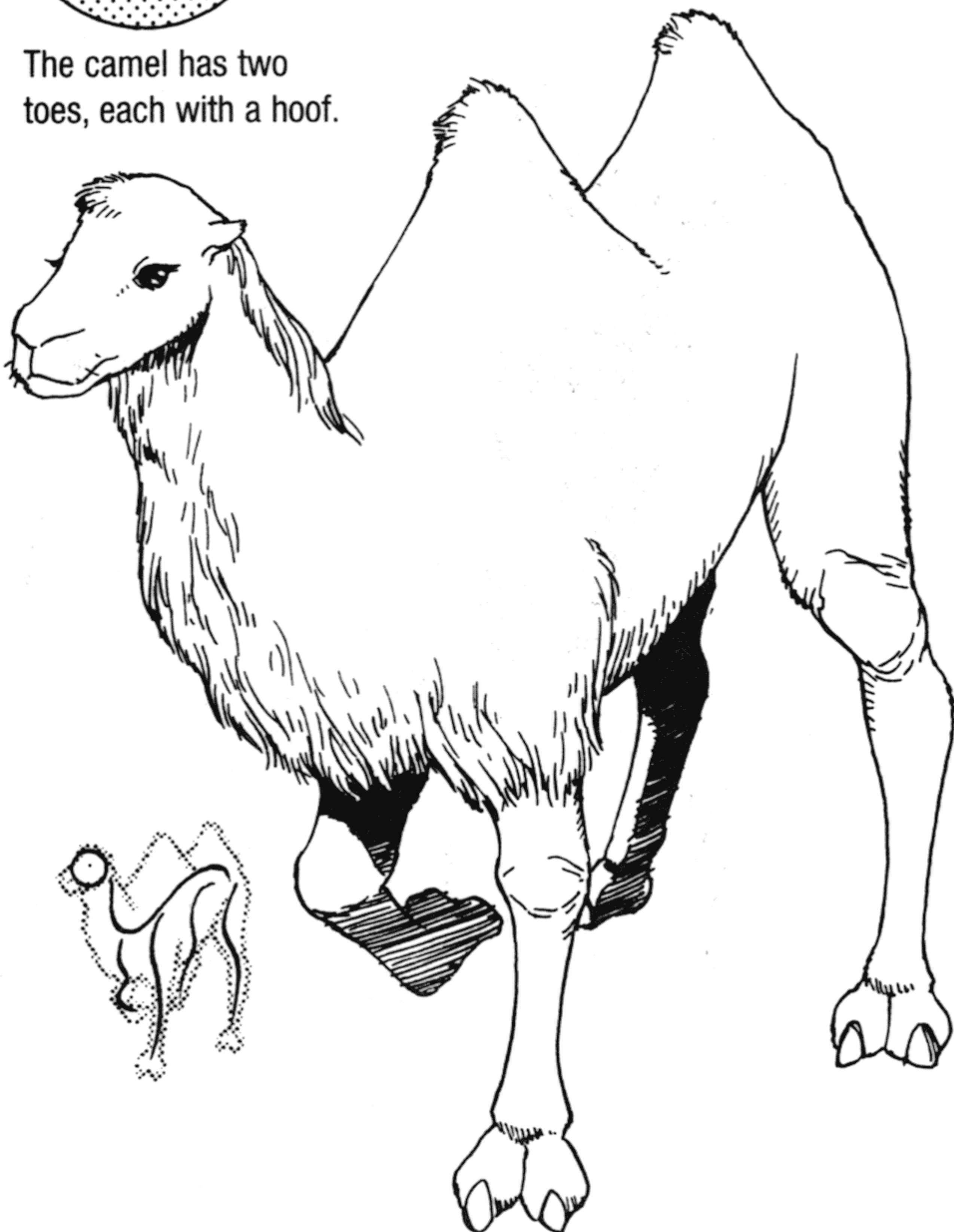
The camel's humps come in a variety of shapes.



The neck has a wide range of motion.



The camel has two toes, each with a hoof.





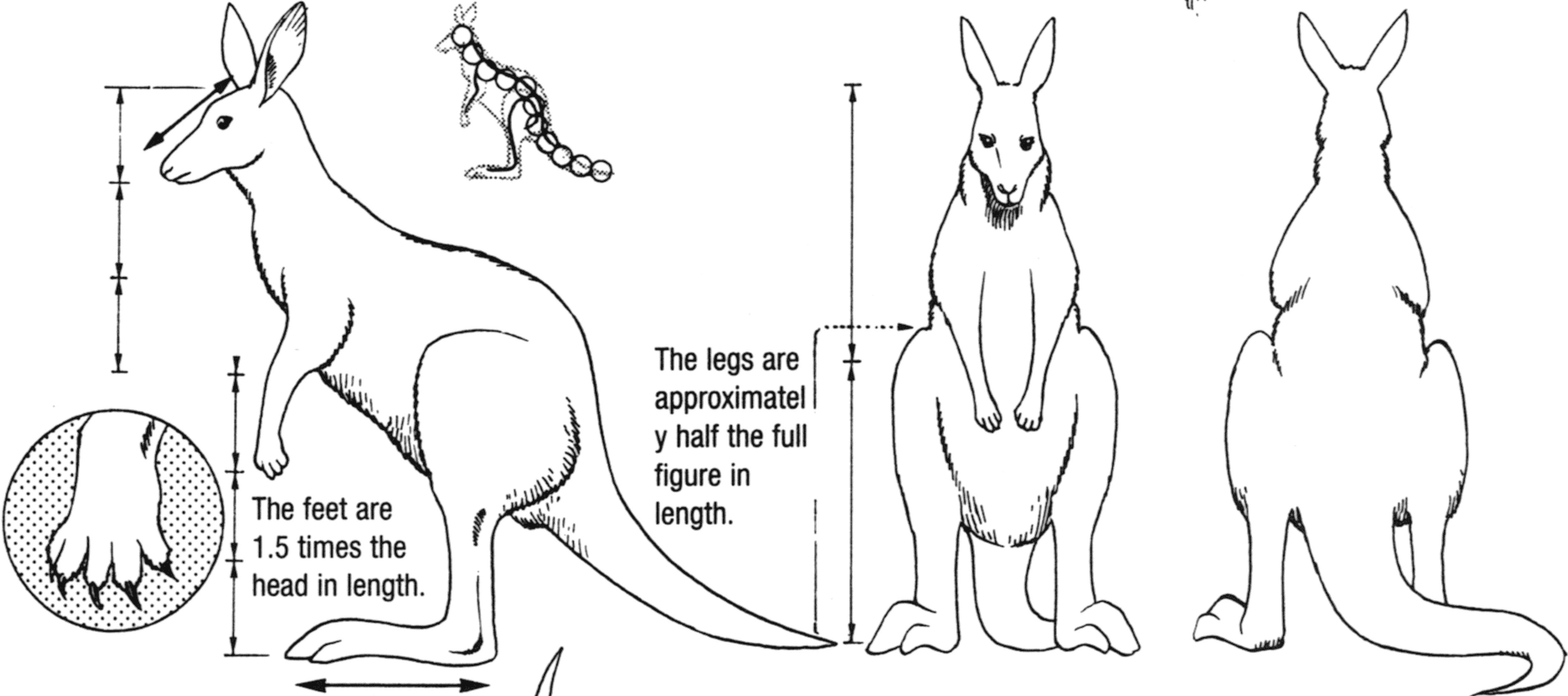
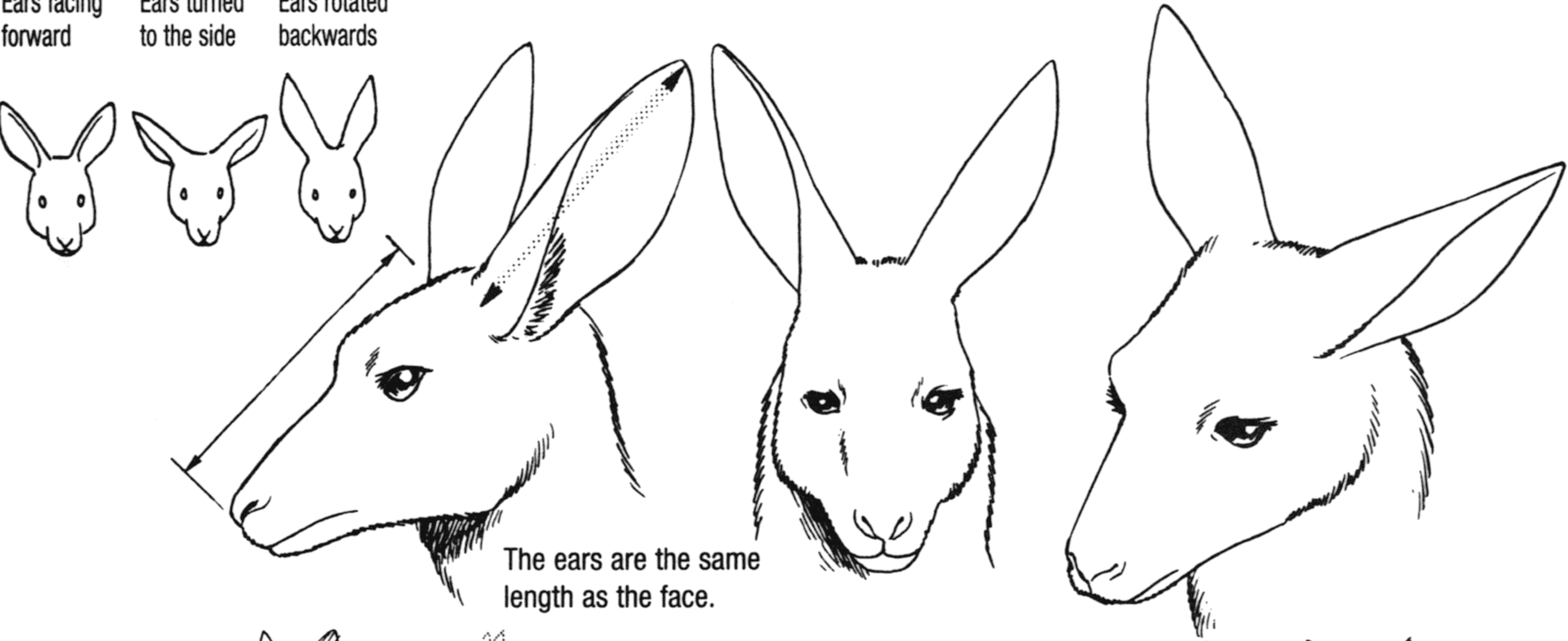
Kangaroos

The ears are capable of moving in all directions.

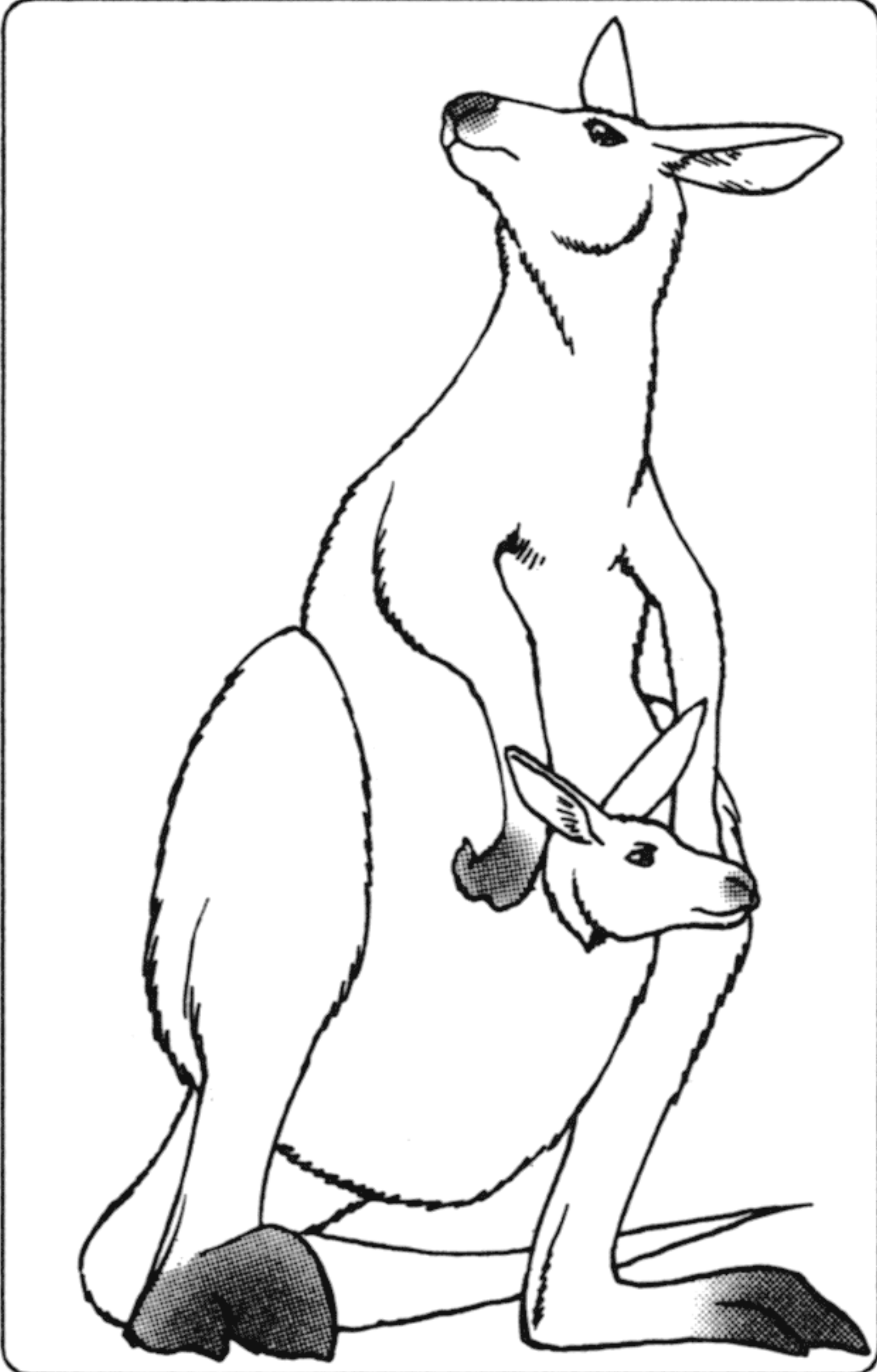
Ears facing forward

Ears turned to the side

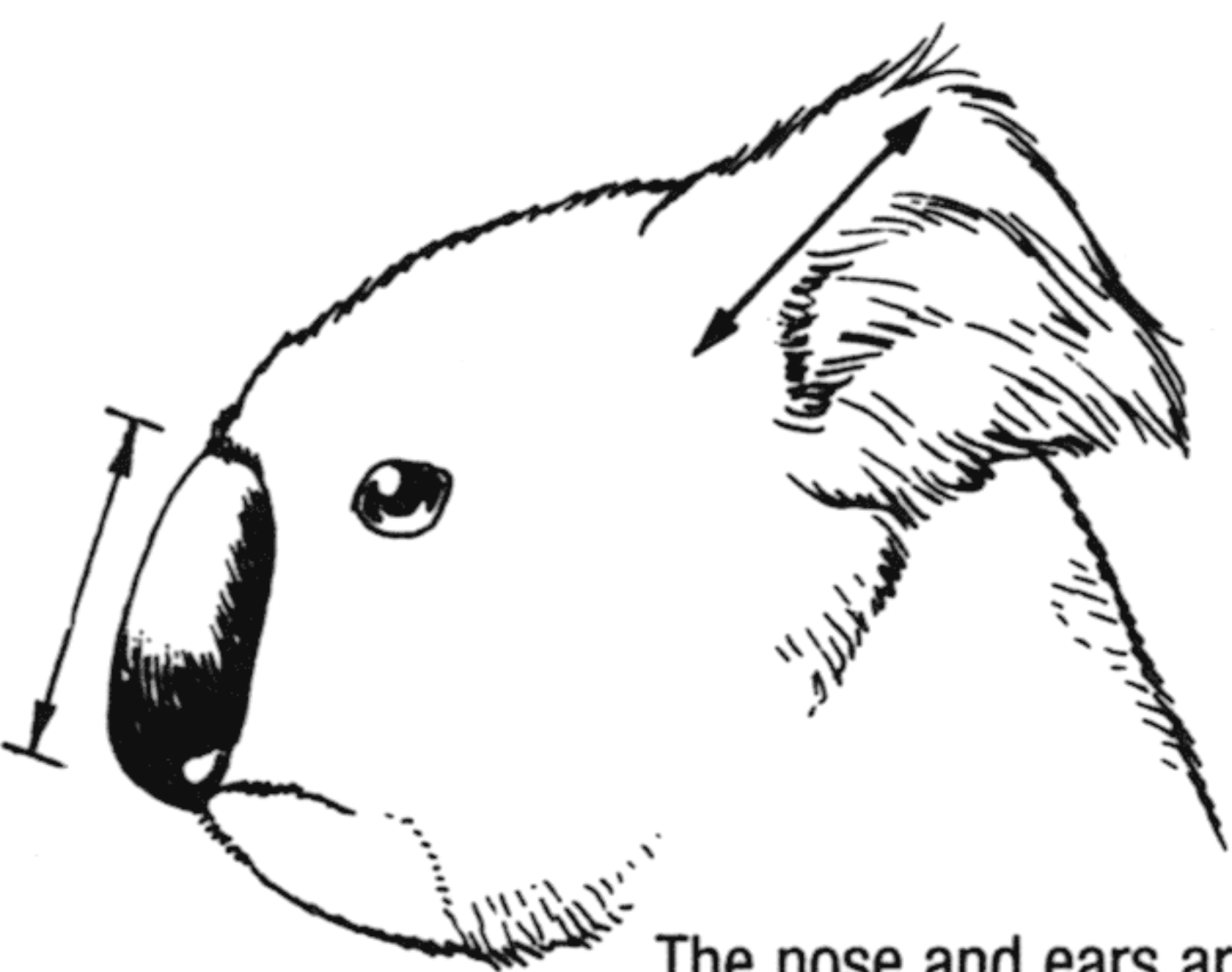
Ears rotated backwards



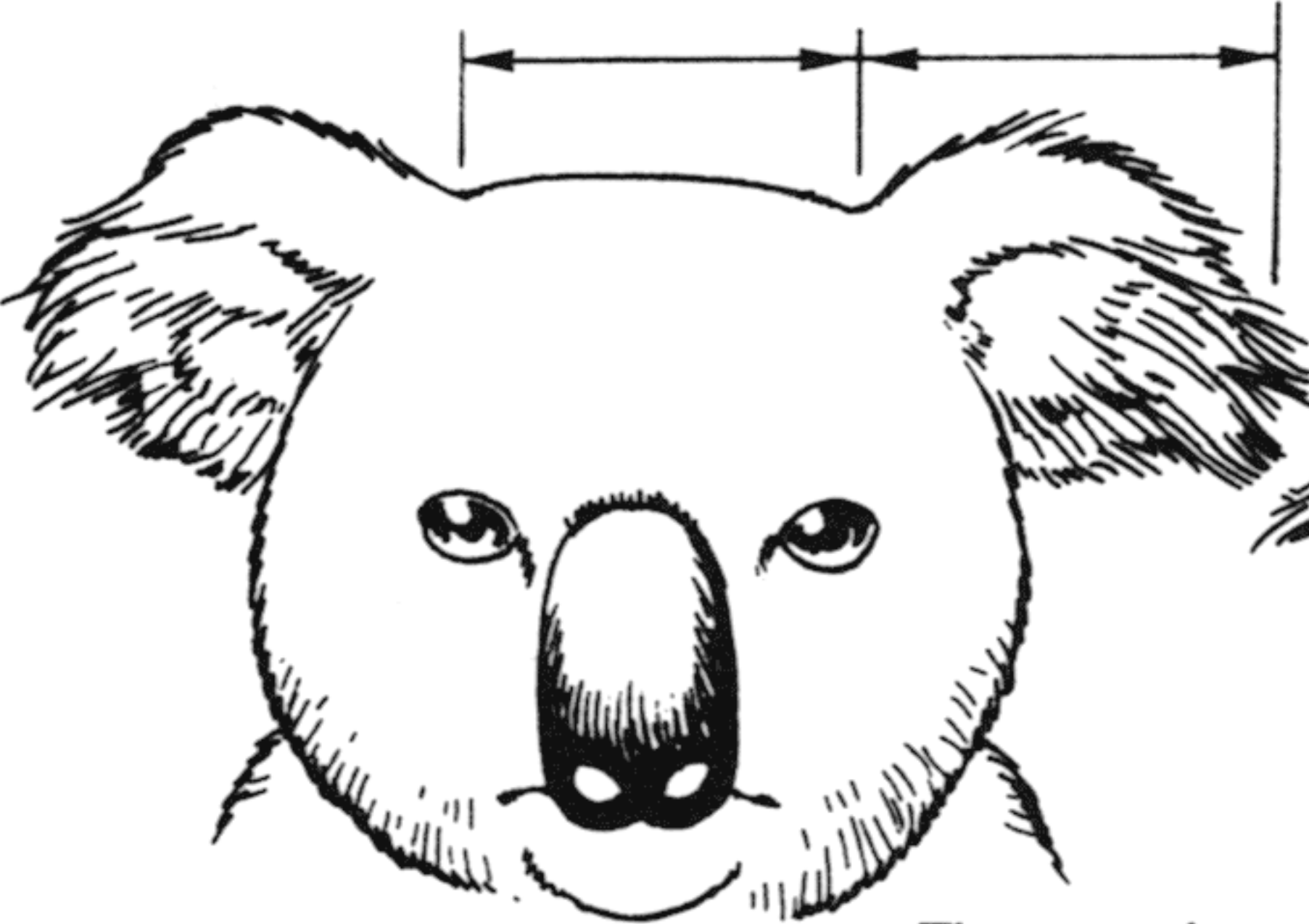
Mommy with Her Joey



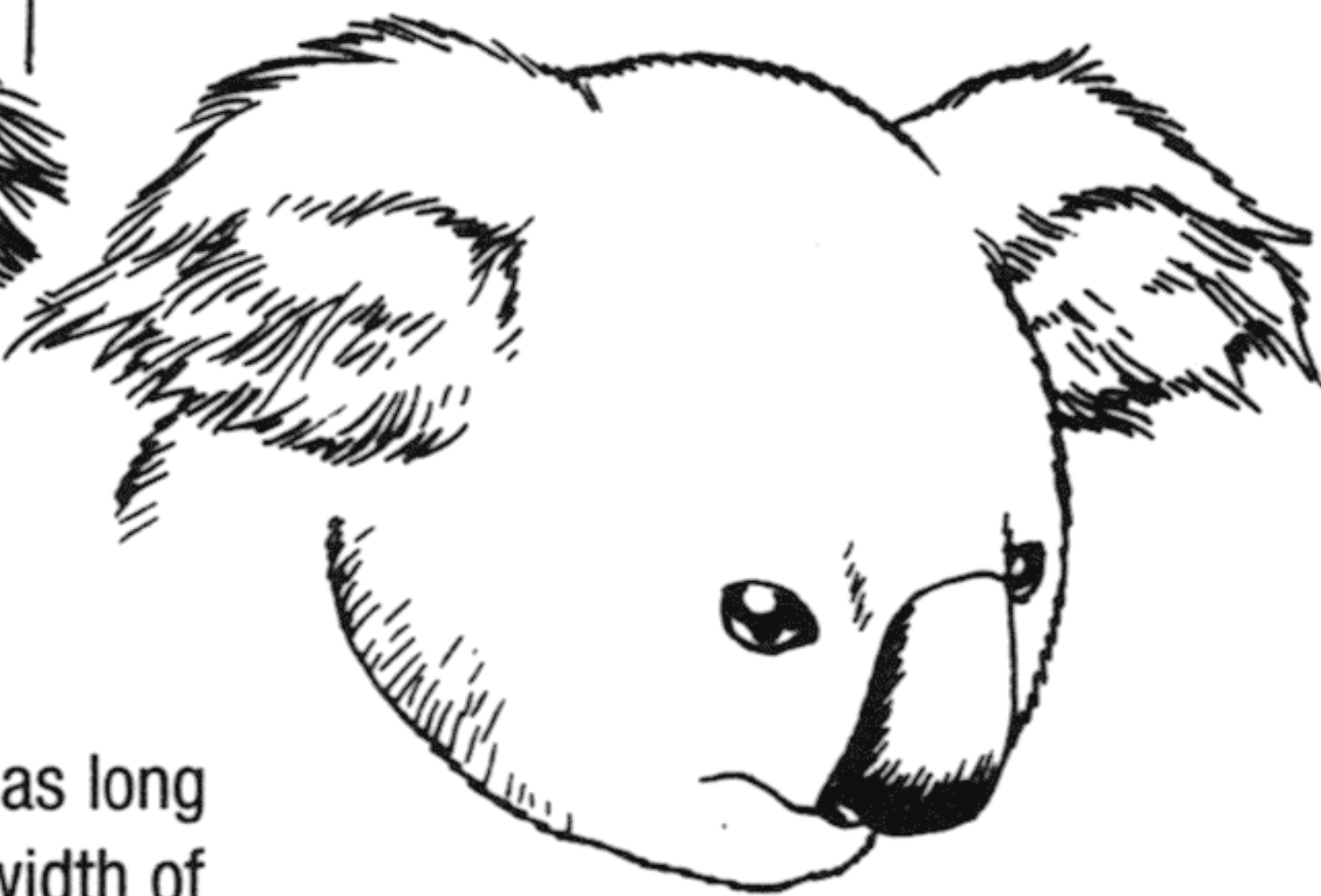




The nose and ears are about the same size.



The nose is as long as half the width of the face.



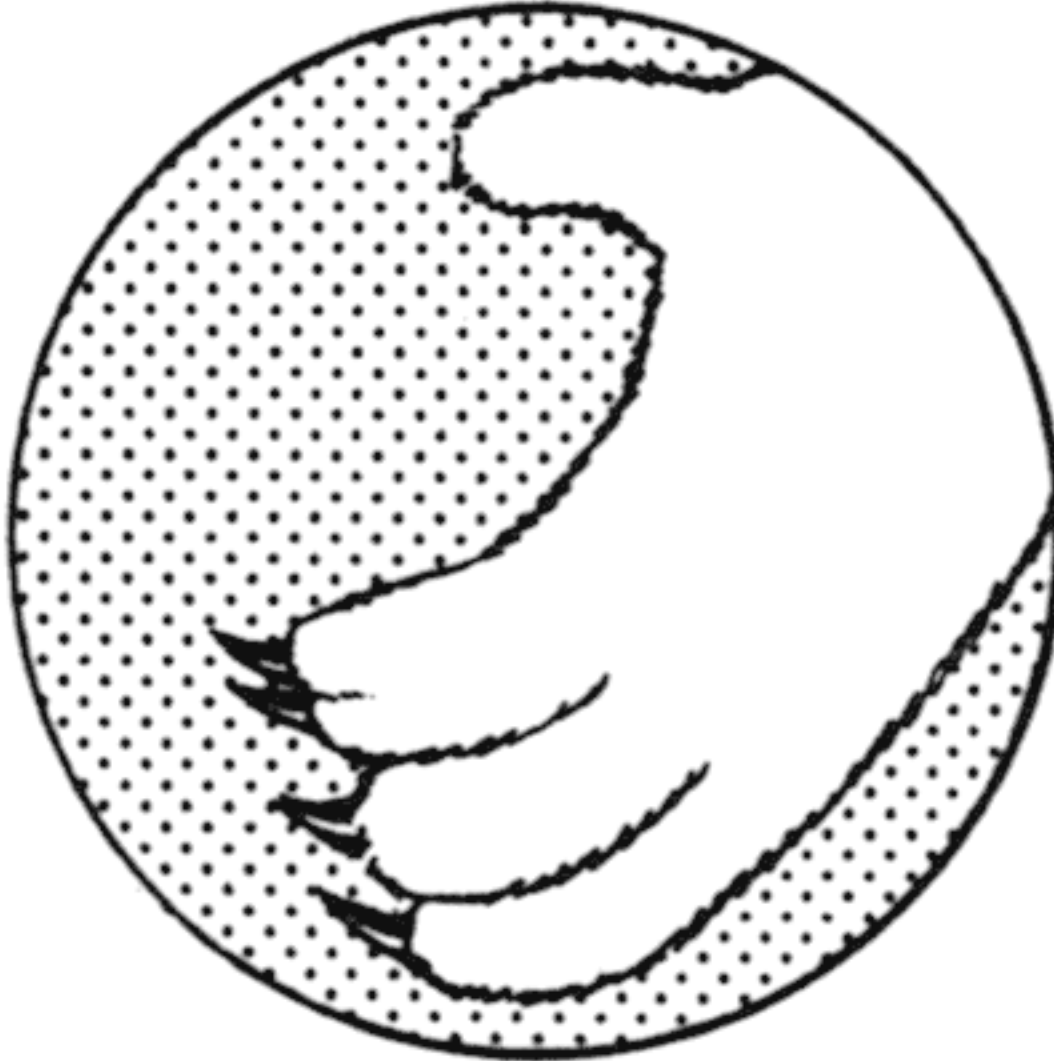
The index finger is slender and positioned next to the thumb, which is also slender.



The ears feature tufts of hair.



Abstracted ear



The fused second and third toes of the foot are slender and aligned with the other toes.



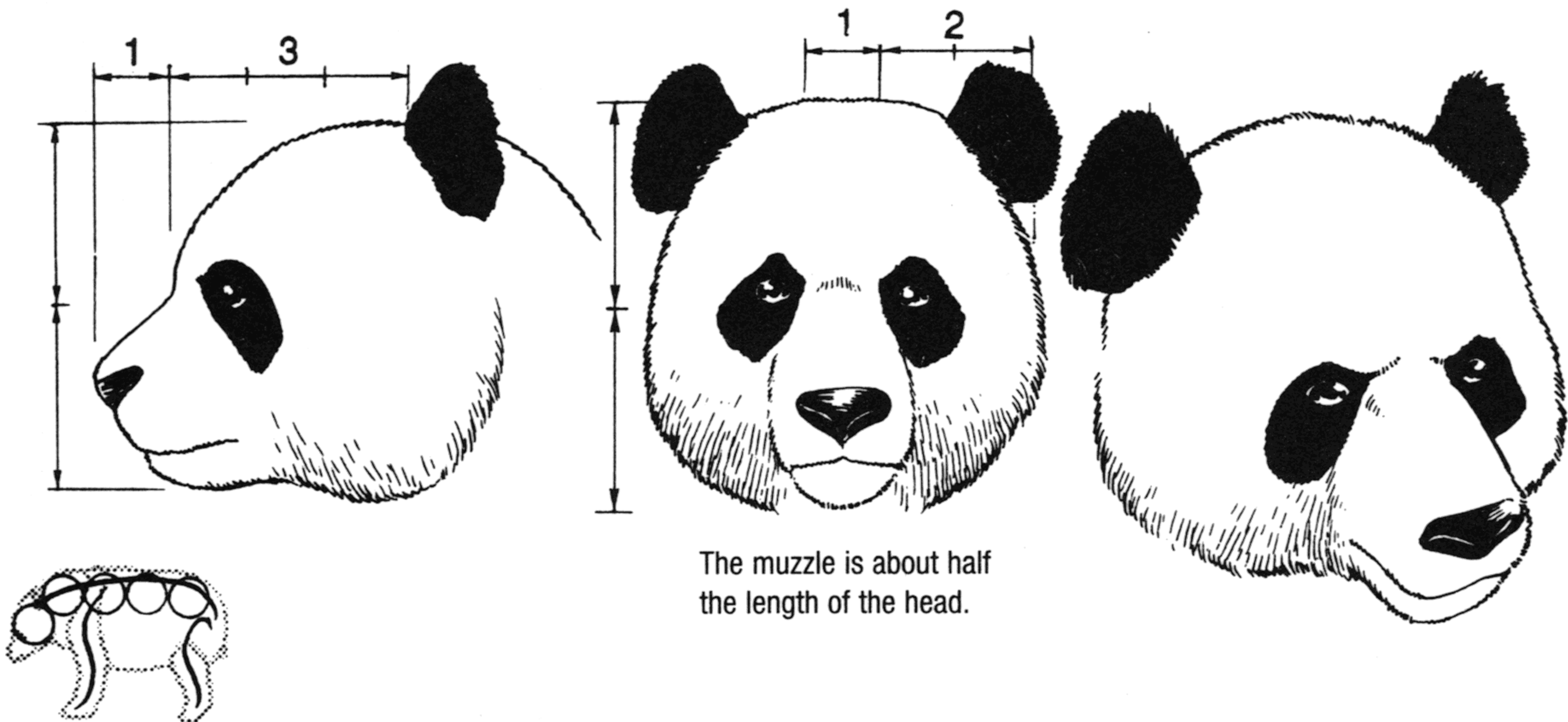
Baby Koala

The juvenile koala's head is smaller but broader than the adult's. The eyes are also slightly more widely spaced.

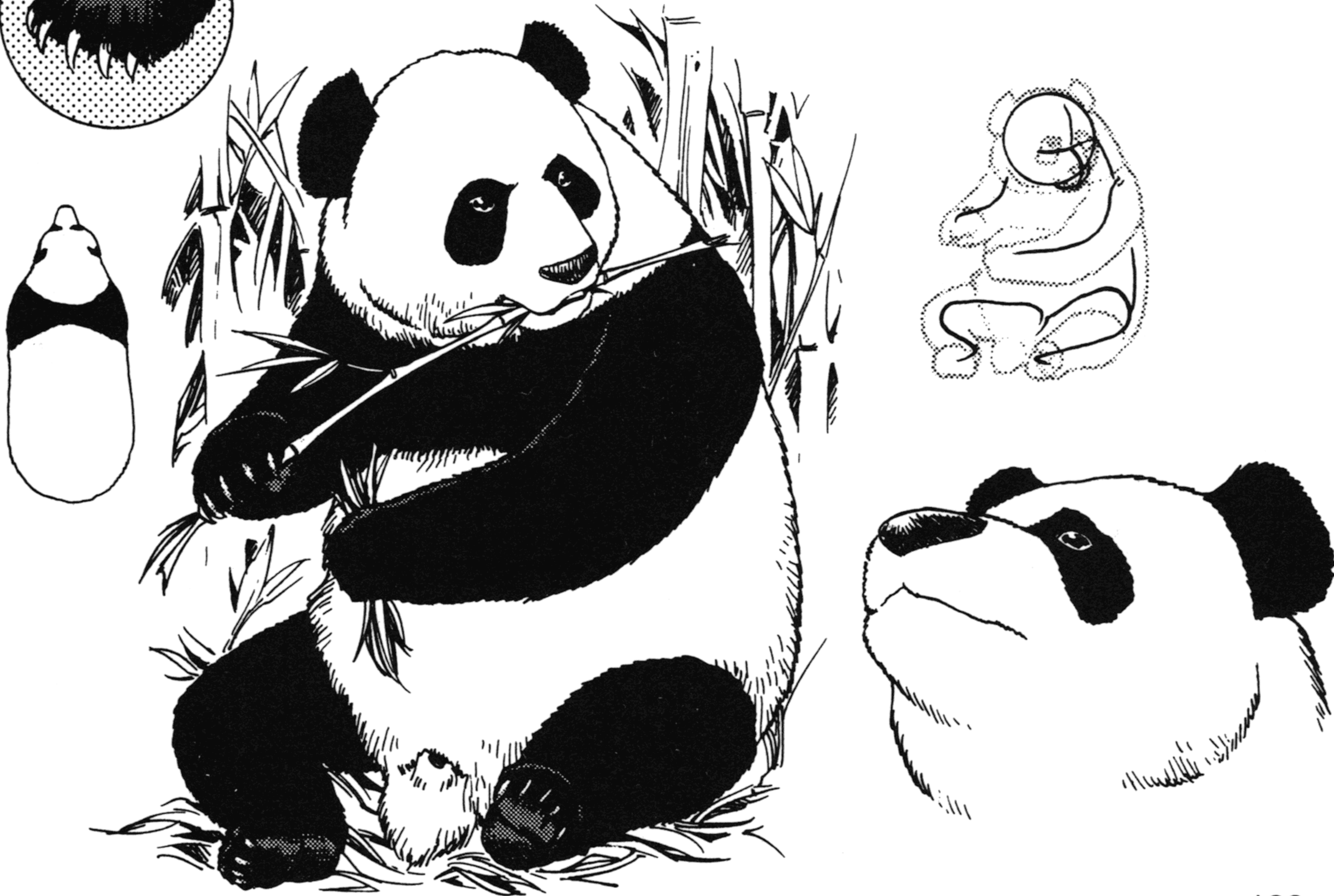
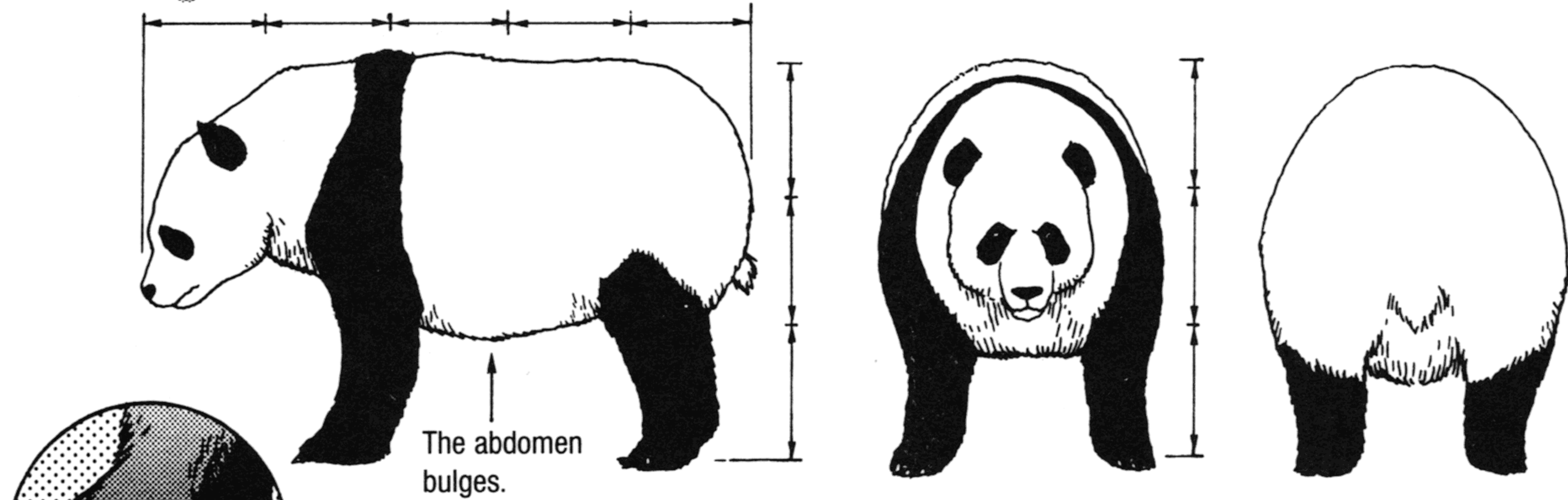


Pandas

The almond-shaped eyes arc slightly upward. The forelegs' black fur extends to encircle the animal from the chest to the back.



The muzzle is about half the length of the head.

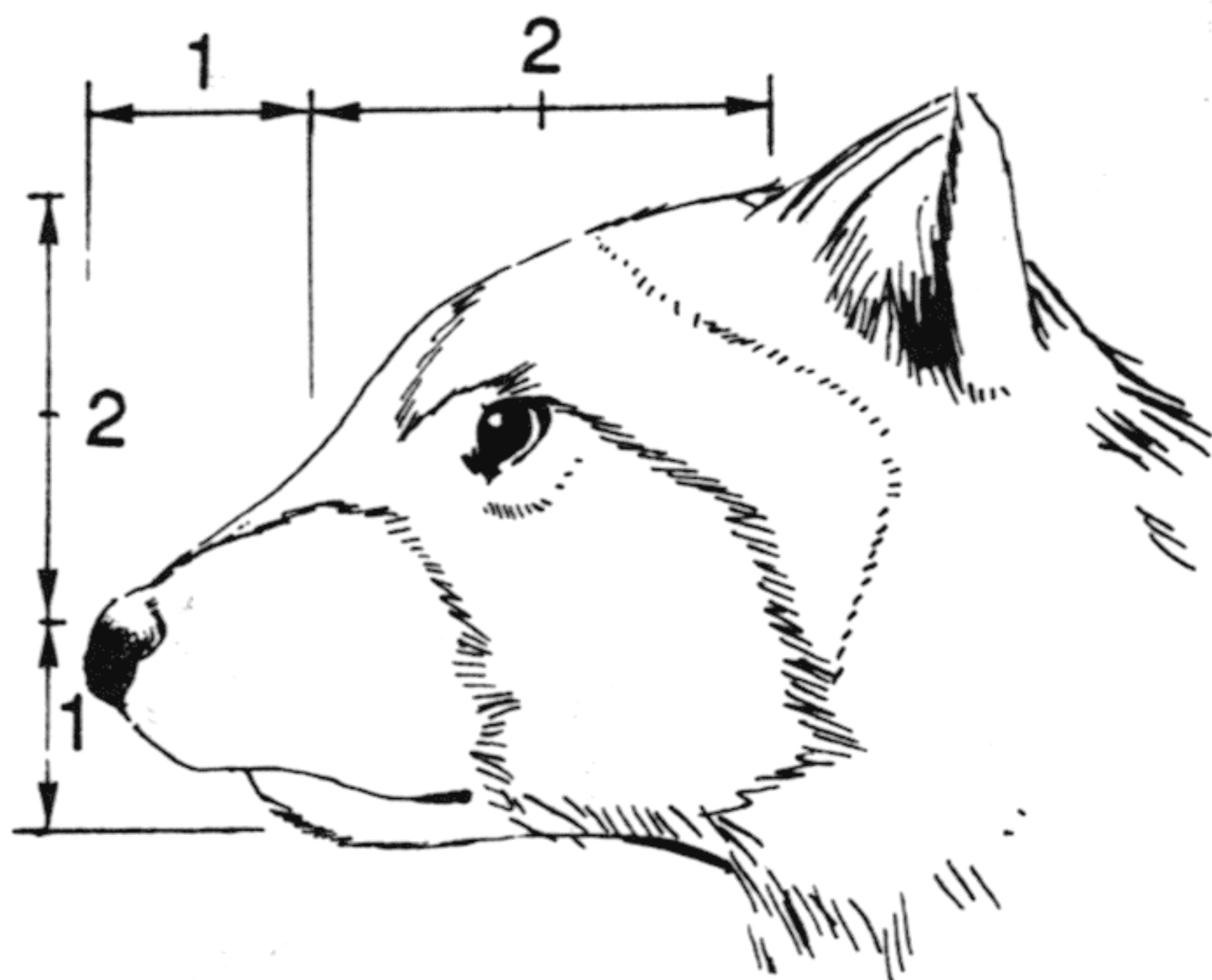




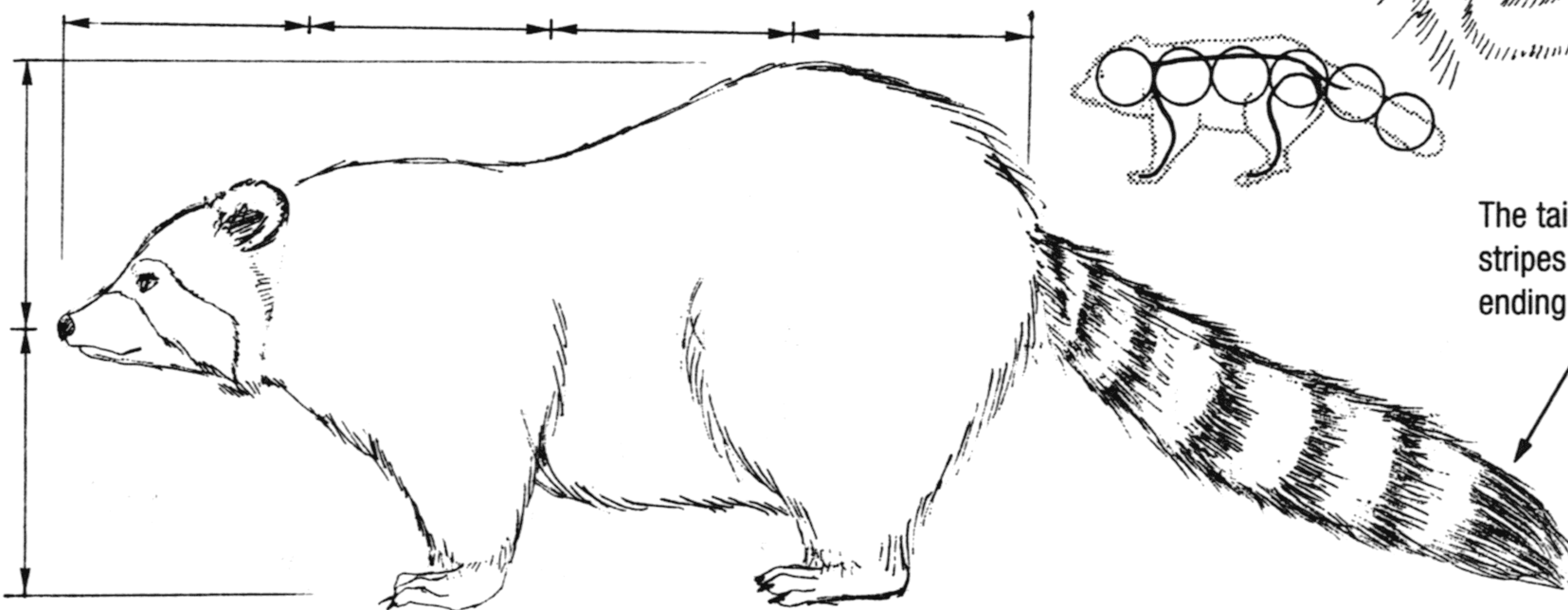
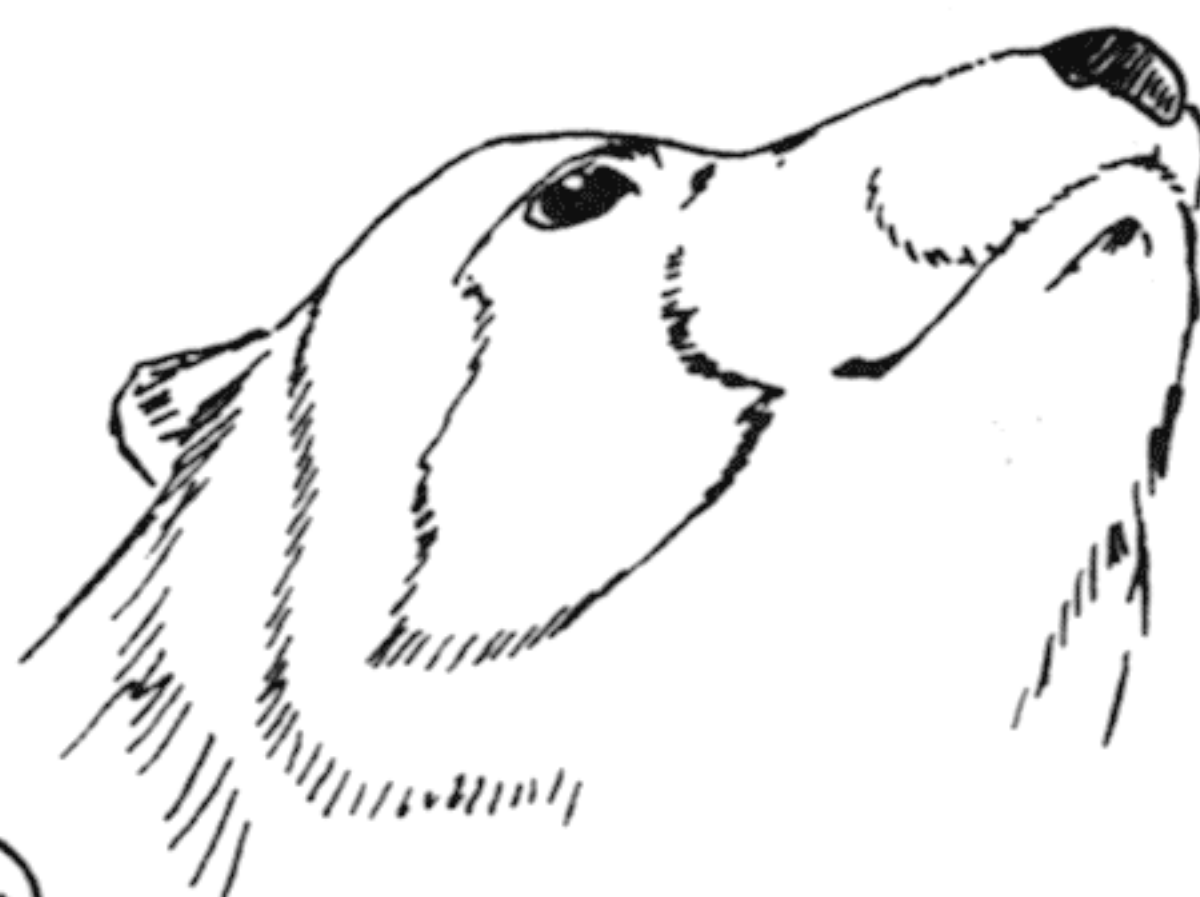
Raccoons

Black surrounds the raccoon's eyes like a mask as well as enveloping the nose and its feet. The tail has six rings with the ring size varying for each individual.

The line from the forehead to the tip of the nose forms a subtle S-curve.



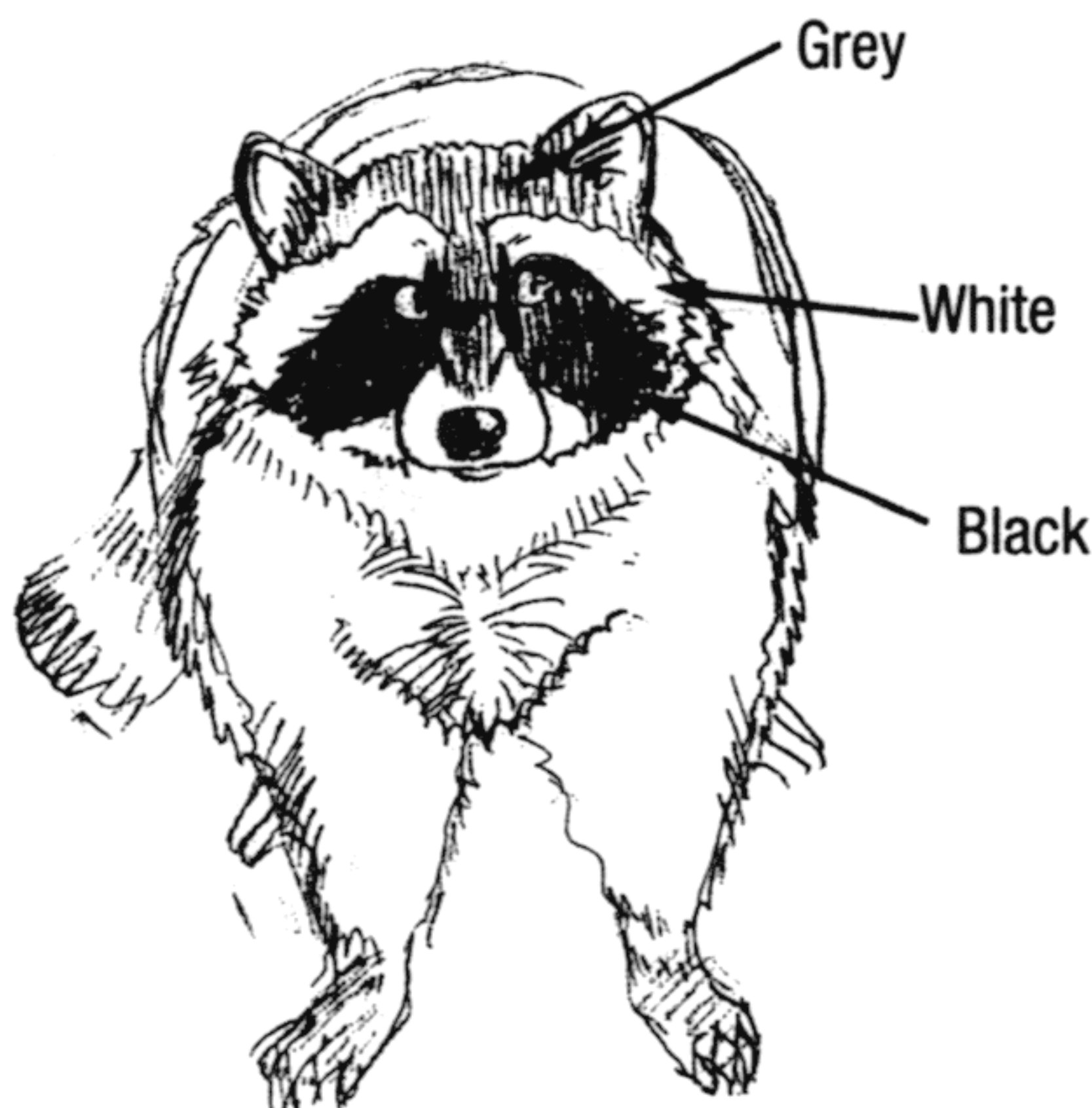
From the front, the raccoon's face is shaped like a flattened diamond.



The tail has six complete stripes with the tail ending in the seventh.



The ends of the feet are black.



The tip of the tail is also black.

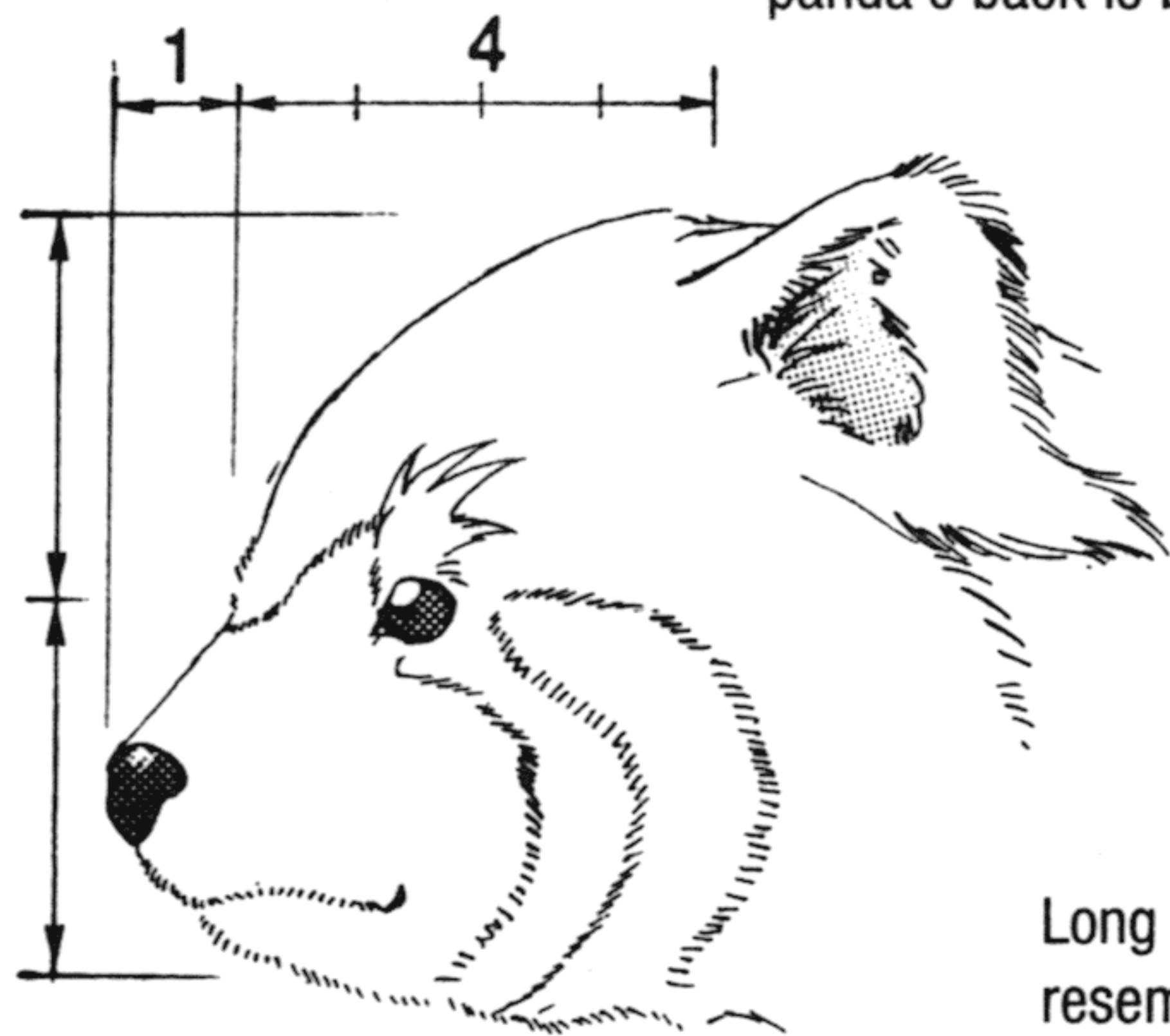




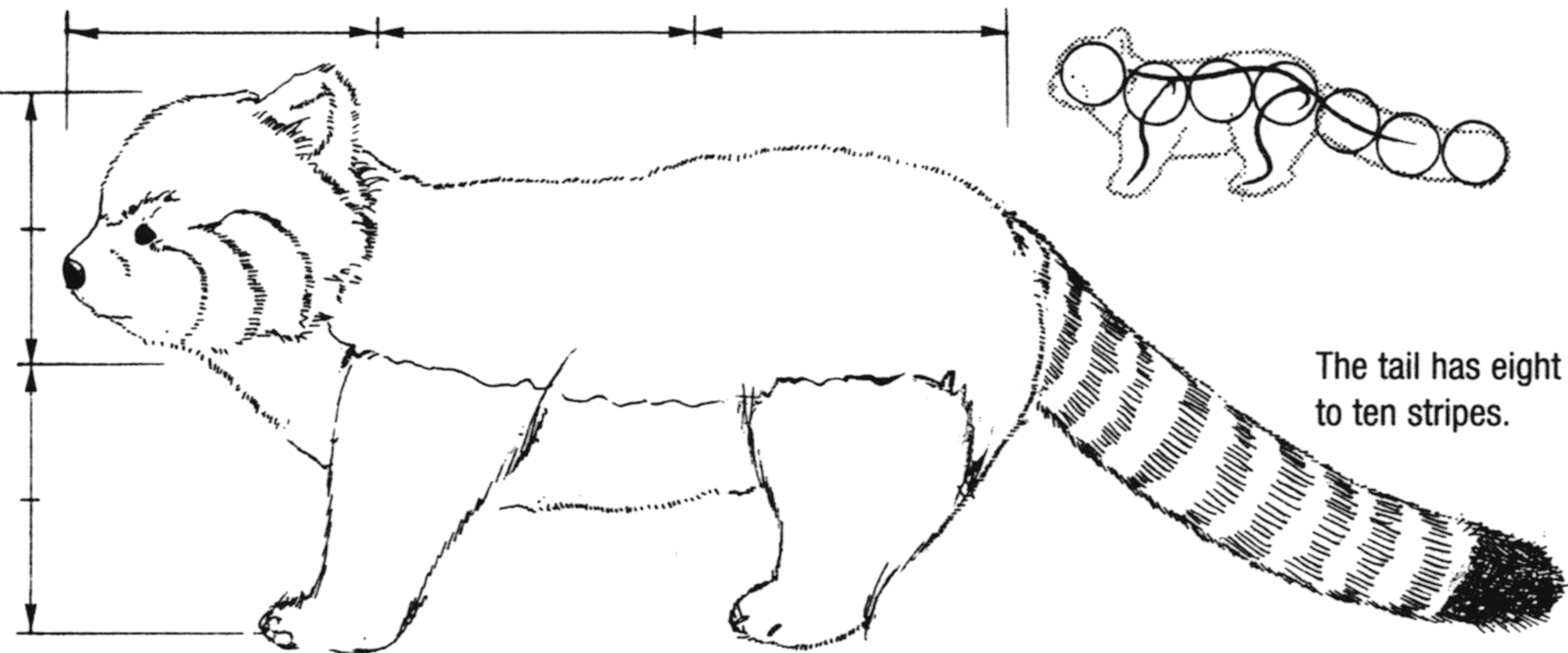
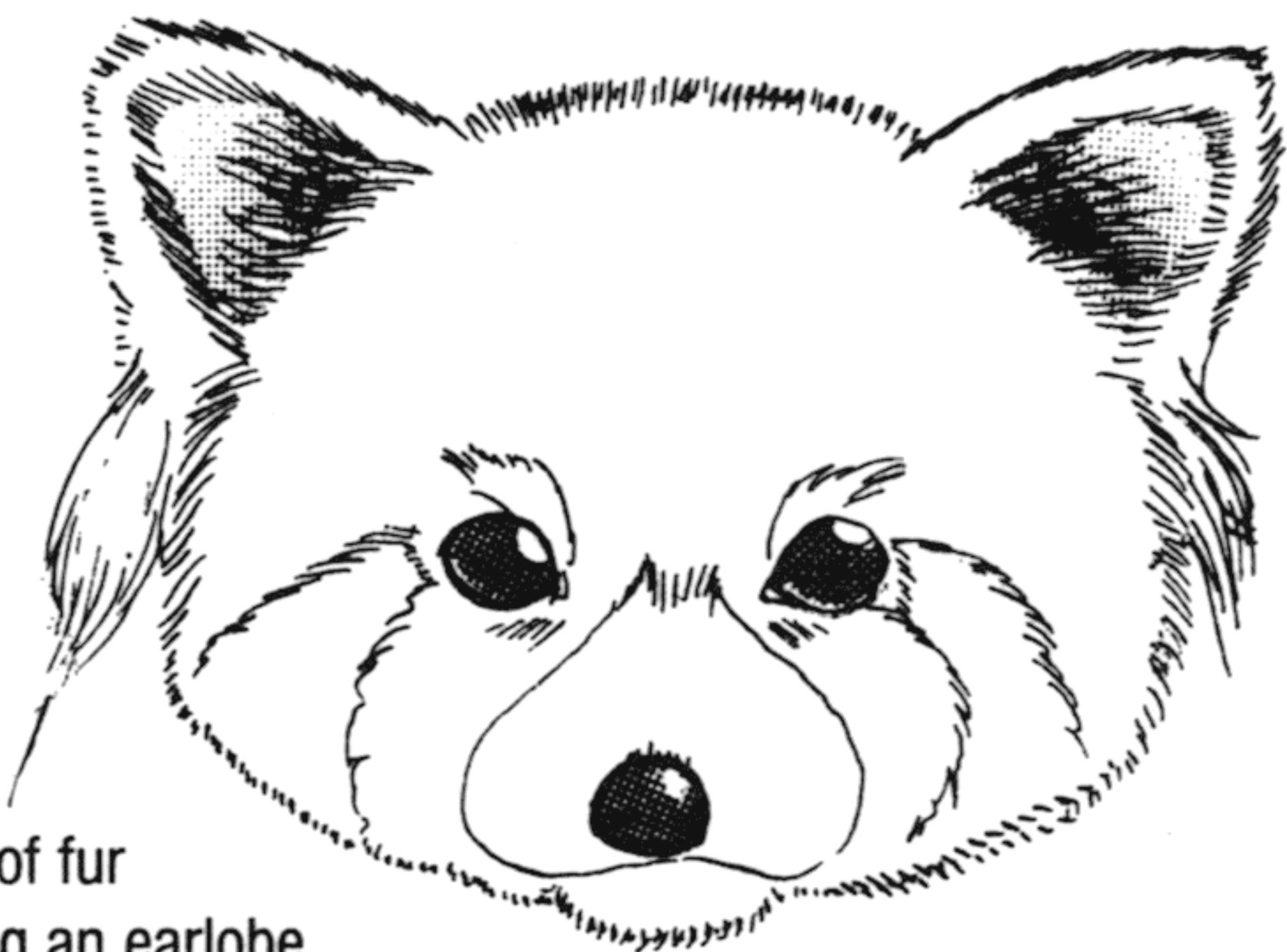


Lesser Panda

The lesser panda sports a round head and triangular ears. Growing at the base of its ears, are long, earlobe-like tufts of fur. While the lesser panda's back is brown, its legs and belly are virtually jet-black.



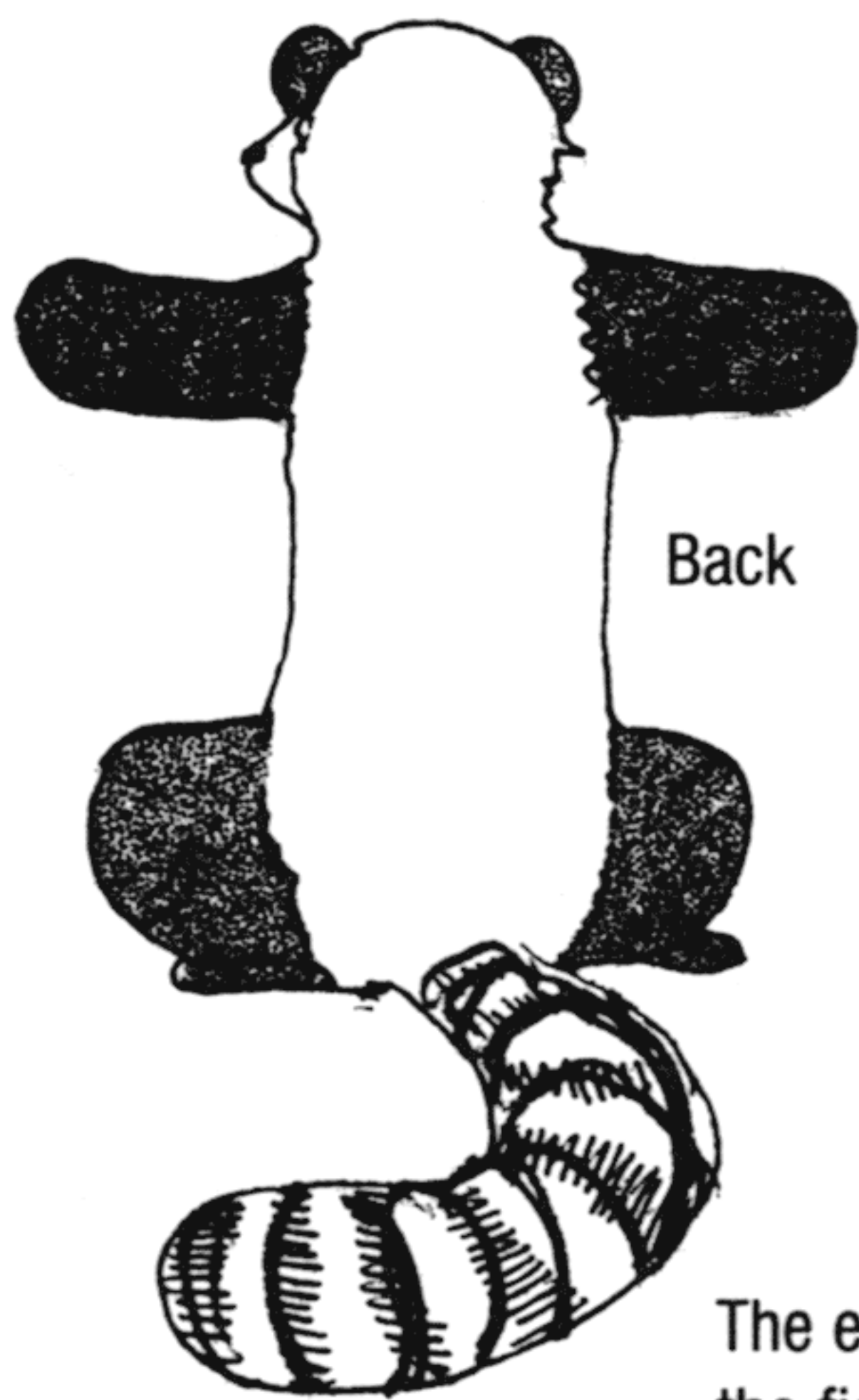
Long tuft of fur resembling an earlobe



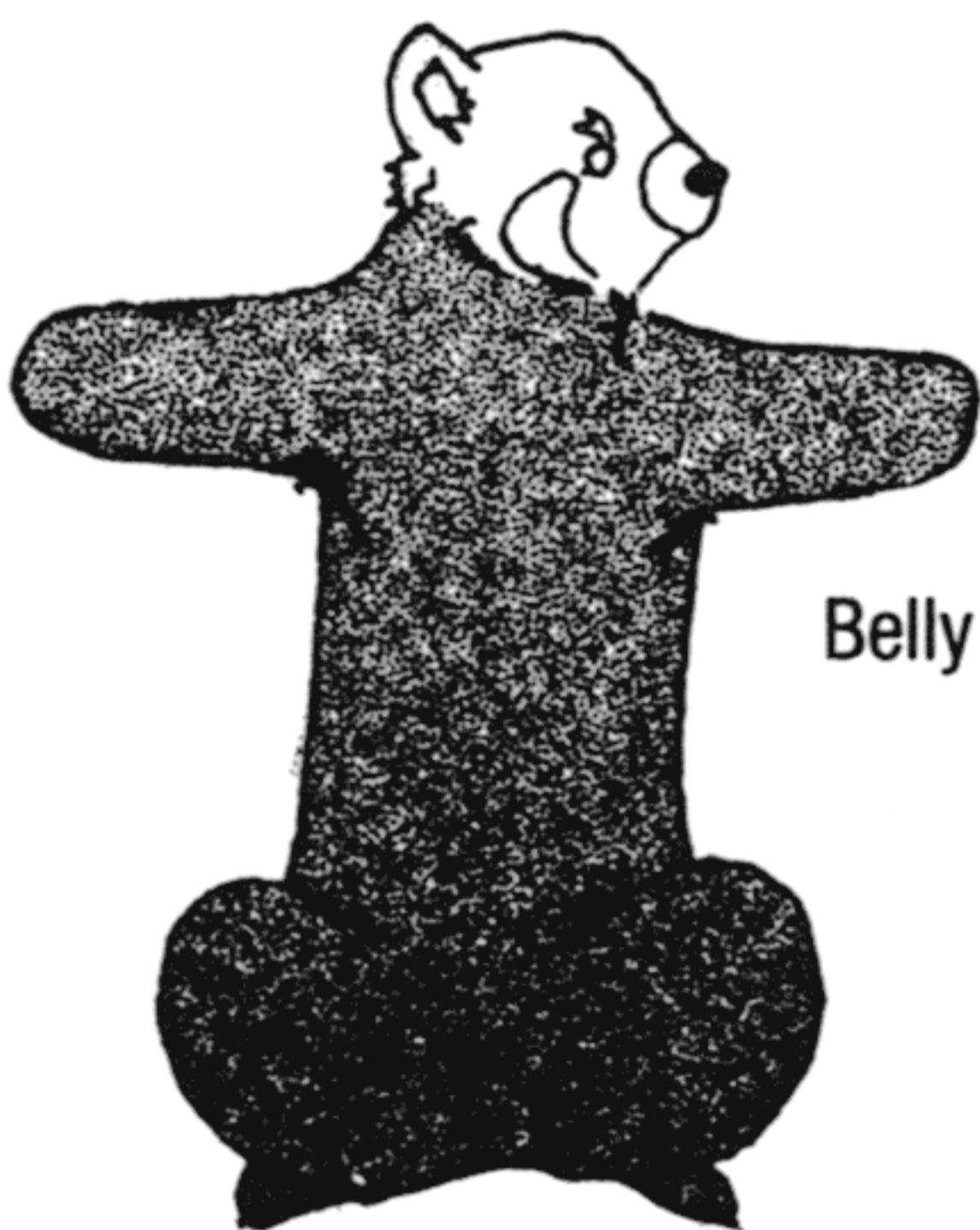
The tail has eight to ten stripes.



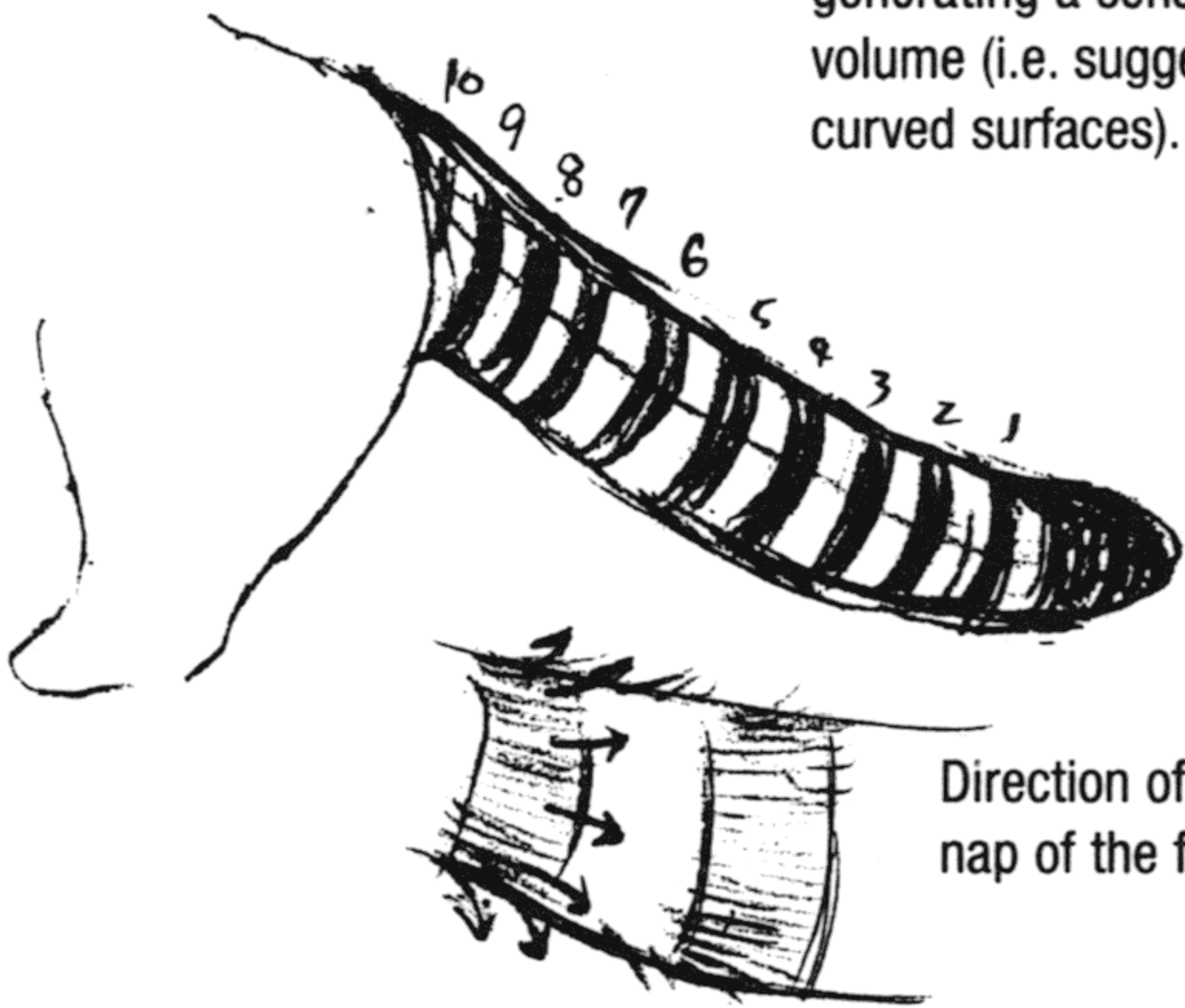
When sketching the under drawing, take care with the number and spacing of the stripes as well as generating a sense of volume (i.e. suggesting curved surfaces).



Back



Belly

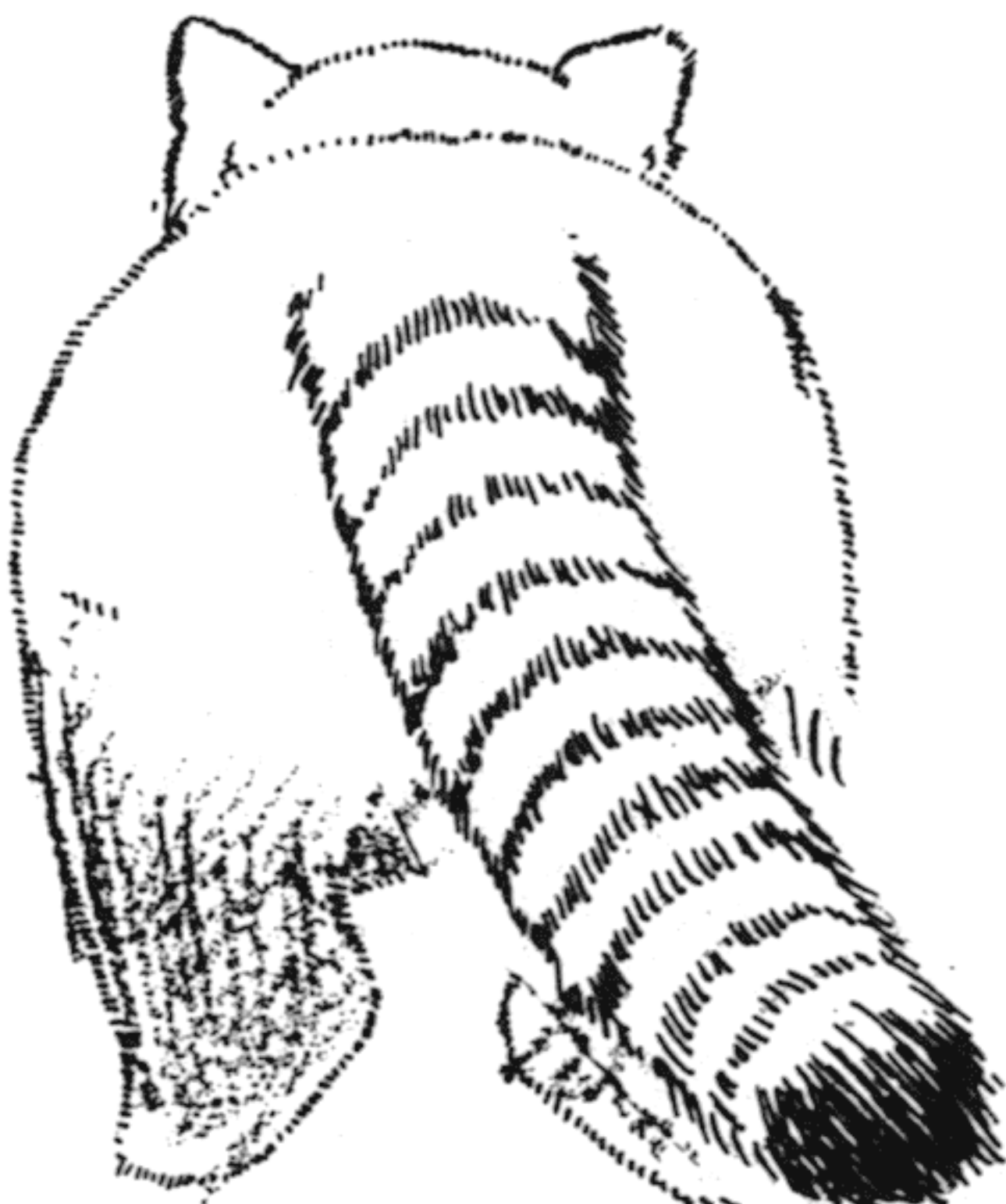


Direction of the nap of the fur

The entire belly (underside of the figure) should be black.



The lesser panda's magnificent claws are noticeable.





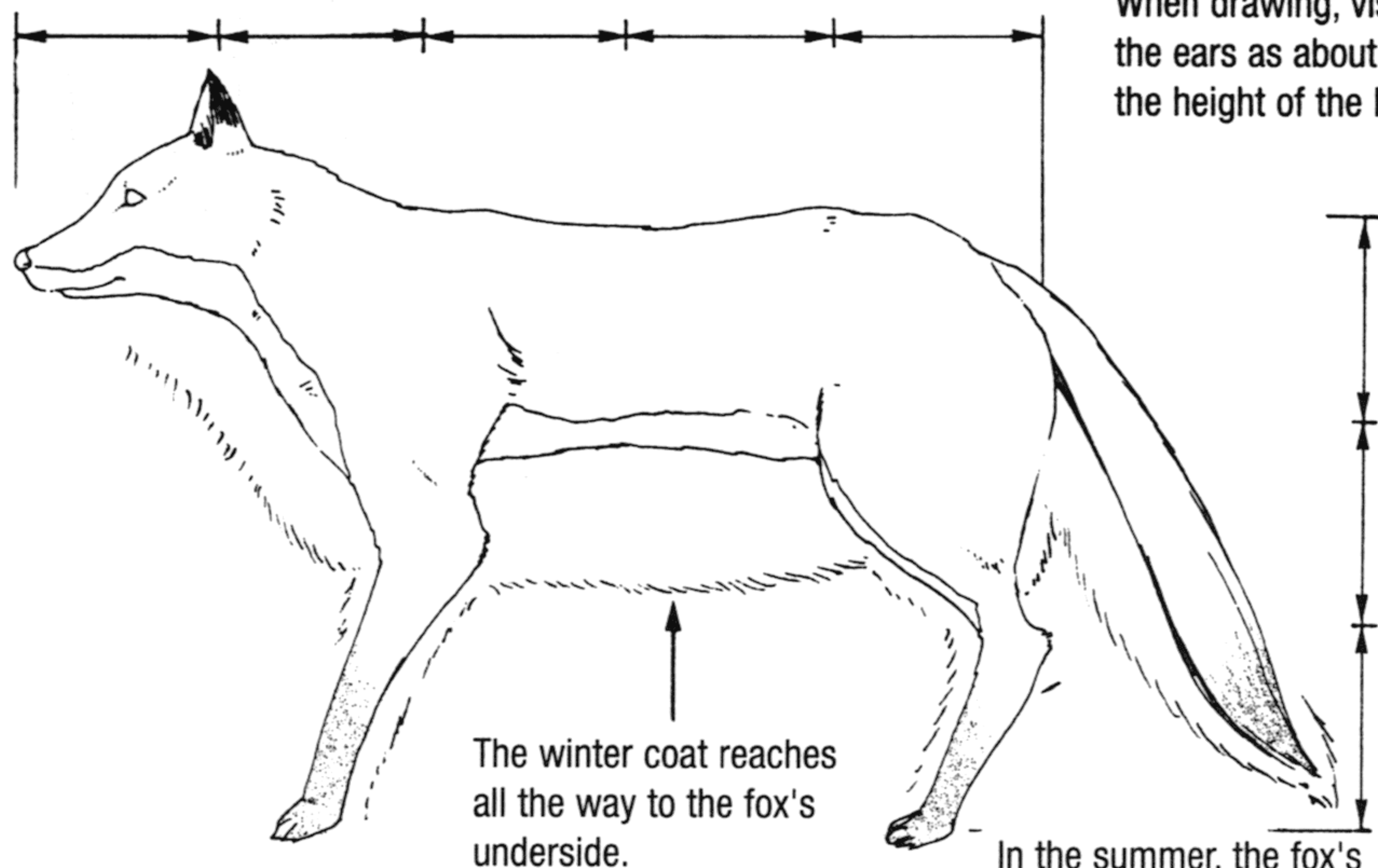
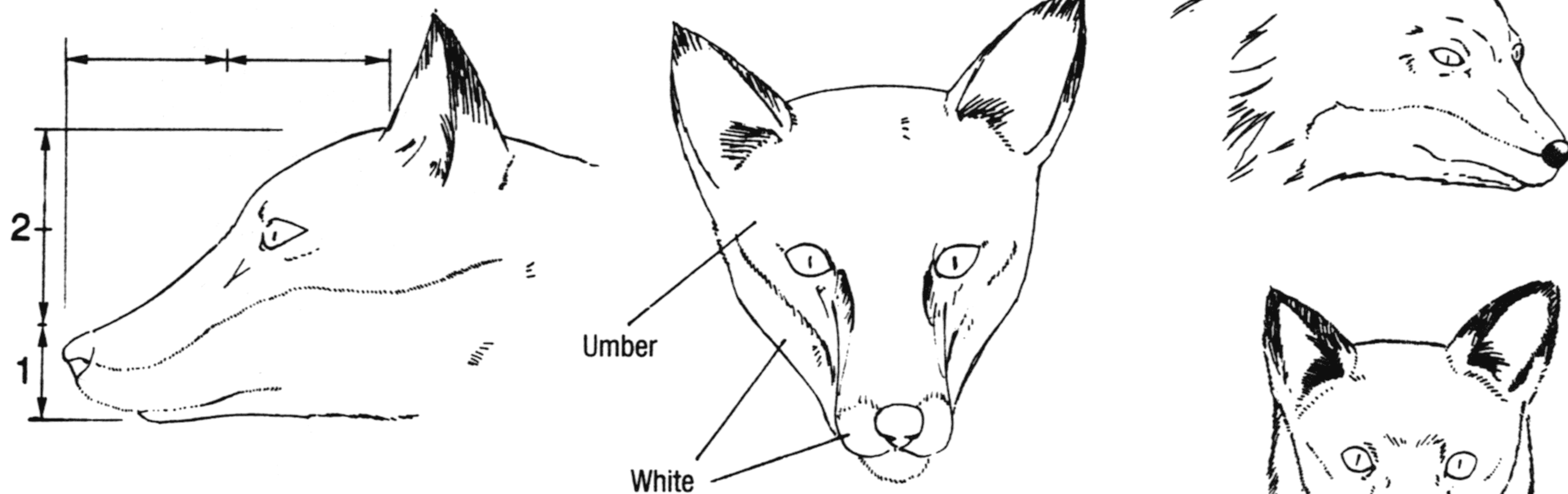




# Foxes

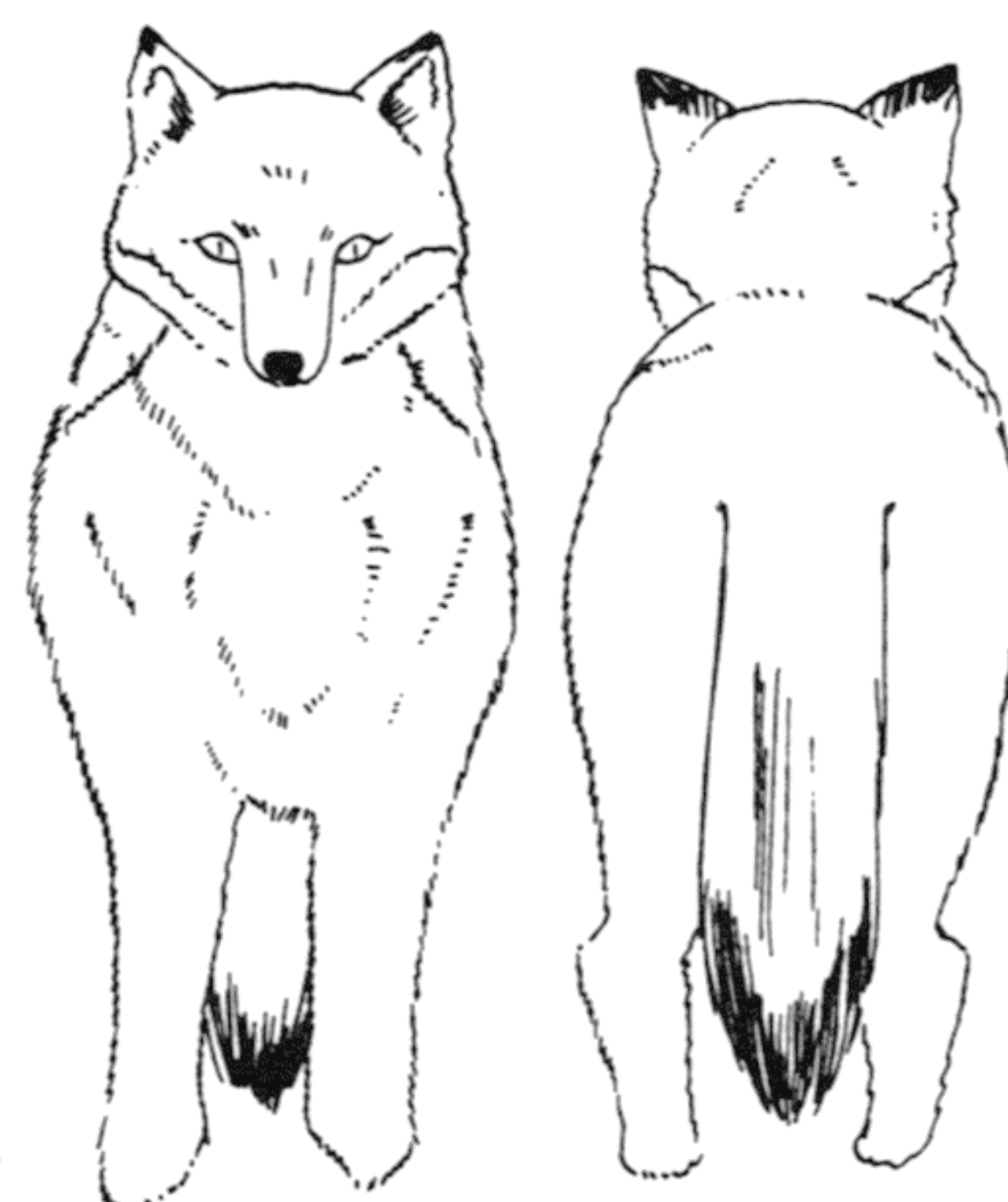
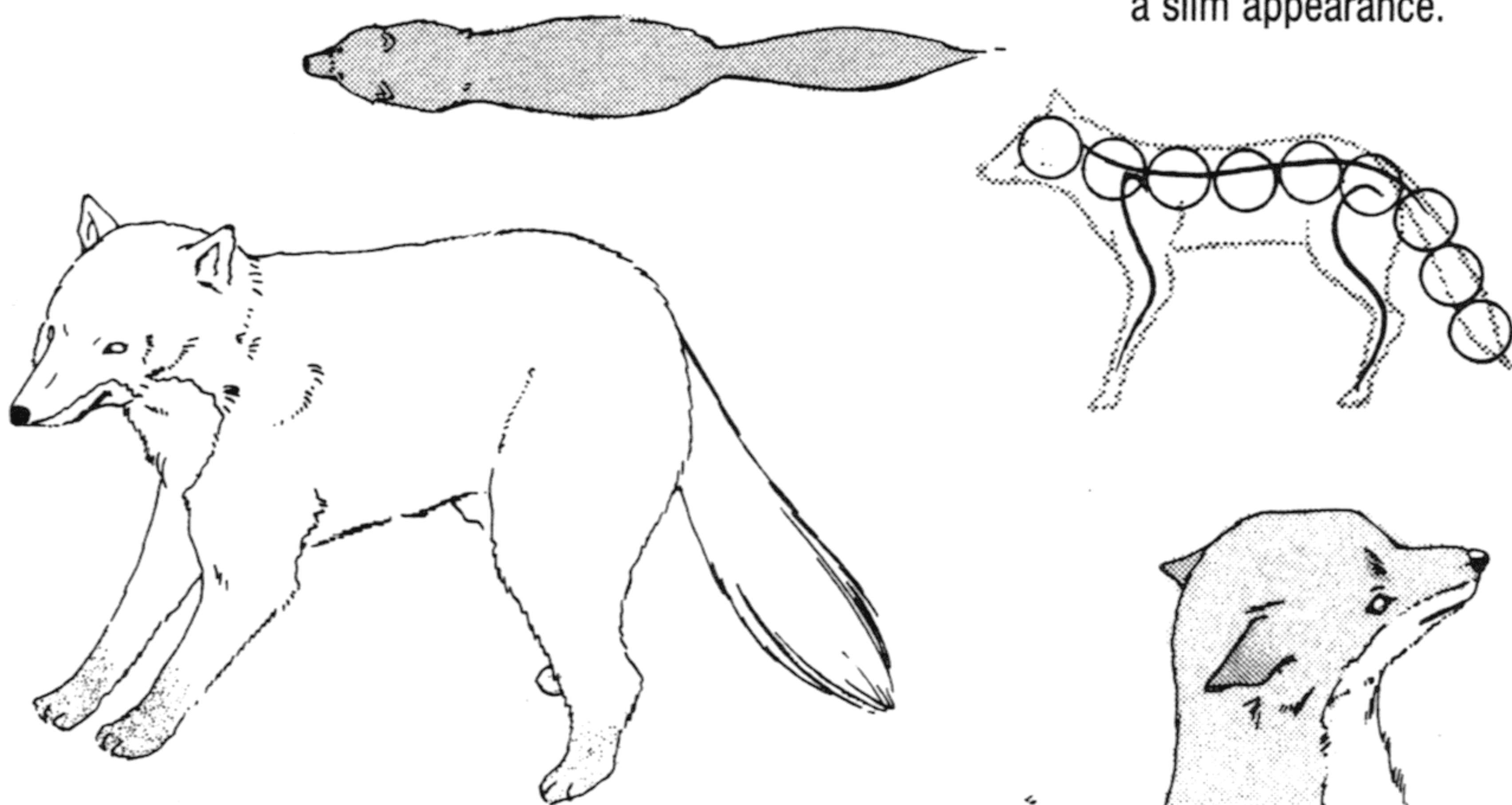
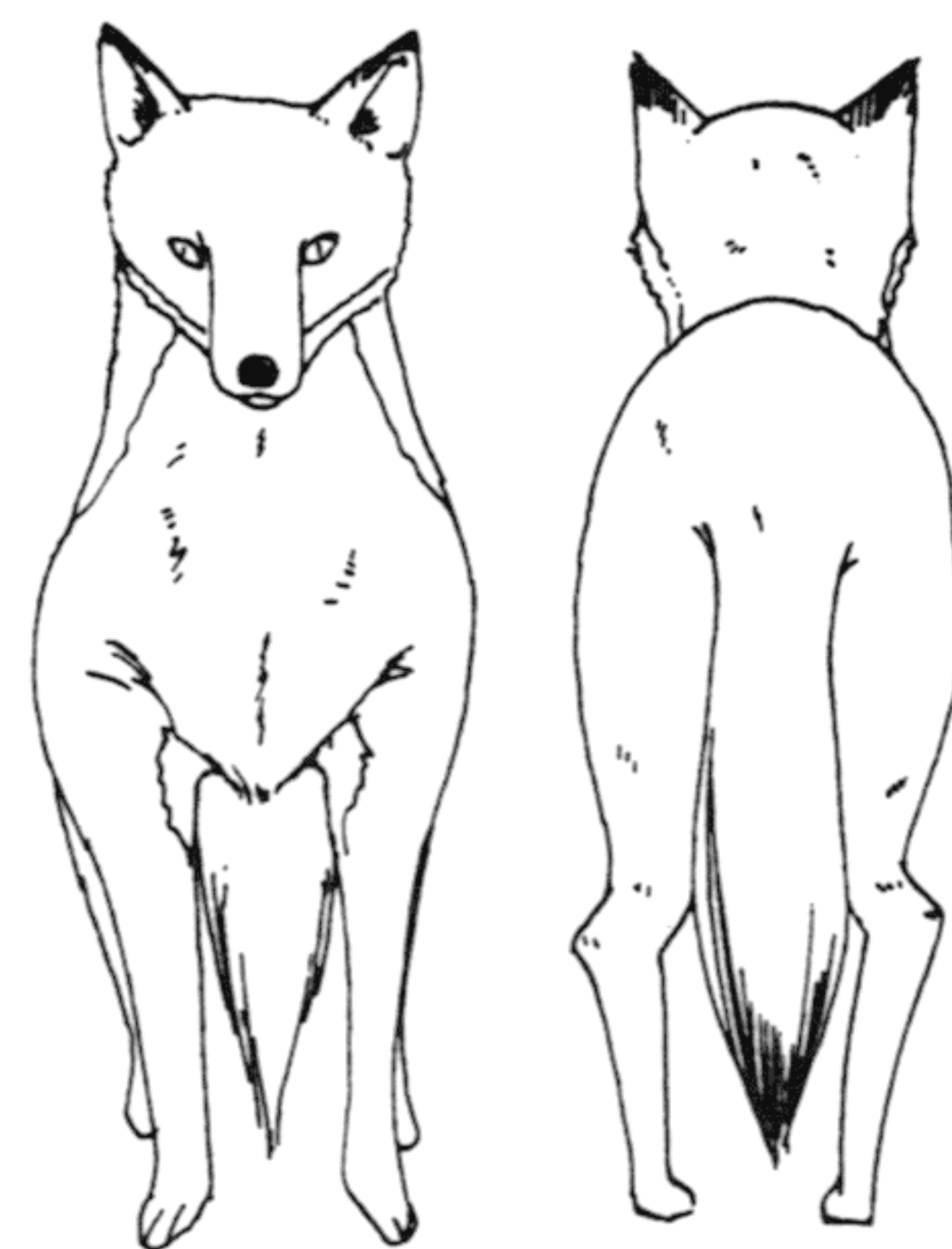
The fox has a triangular face. I recommend giving the snout a long, cylindrical silhouette.

The tips of the ears are a dark burnt umber.

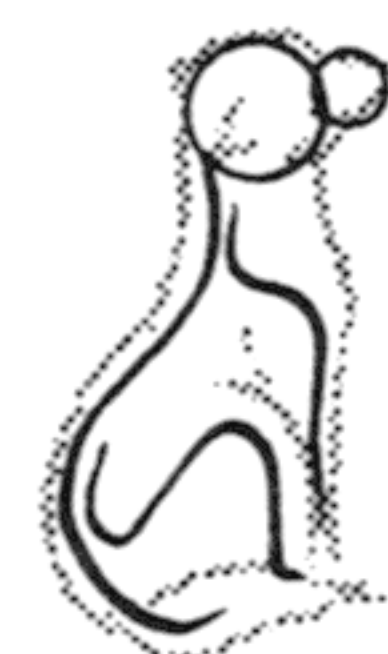


When drawing, visualize the ears as about half the height of the head.

In the summer, the fox's coat is short, giving him a slim appearance.

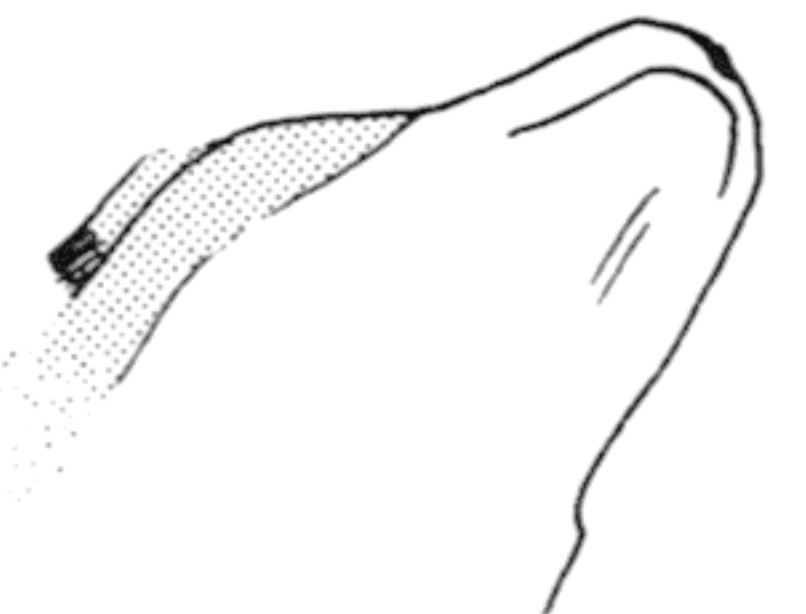
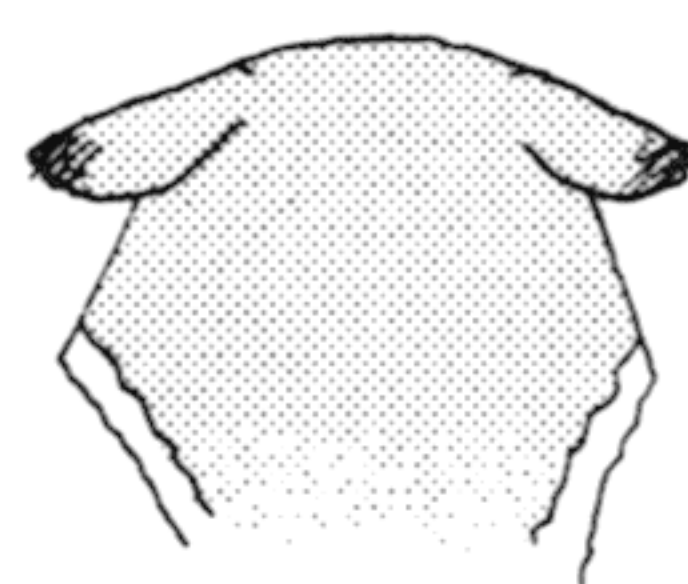
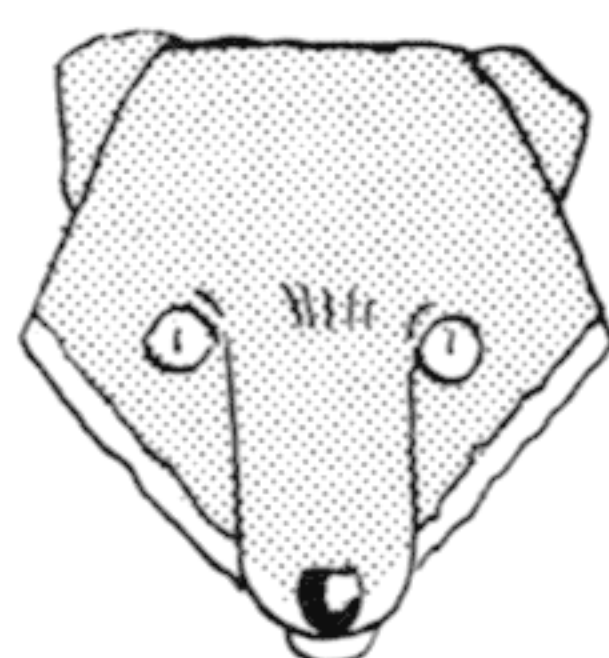
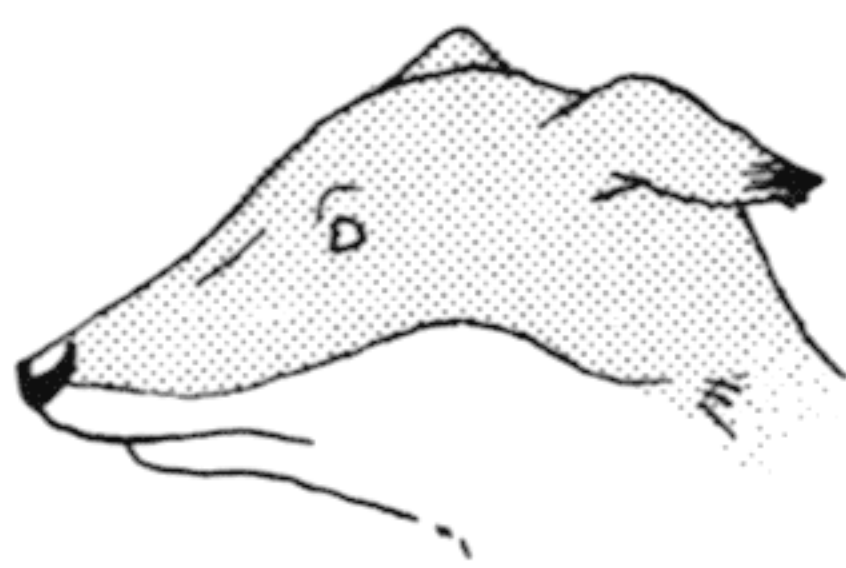
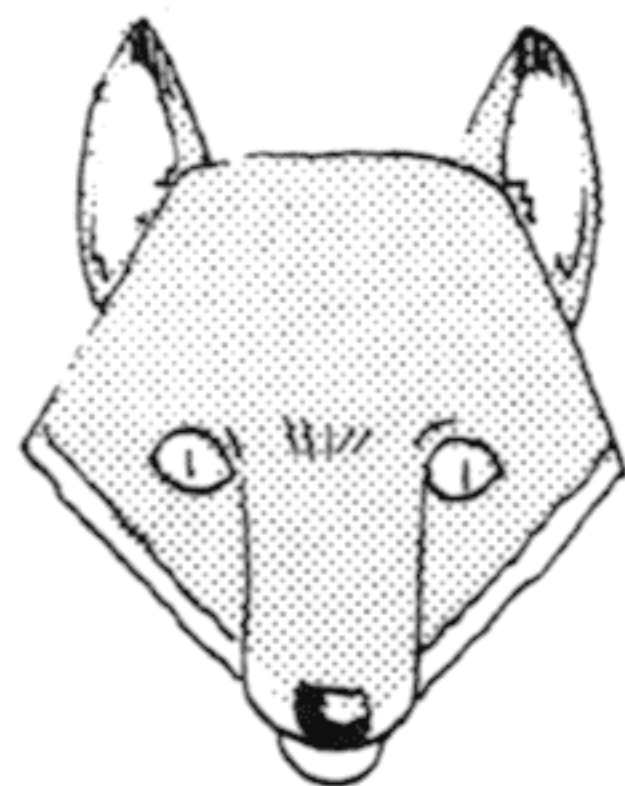
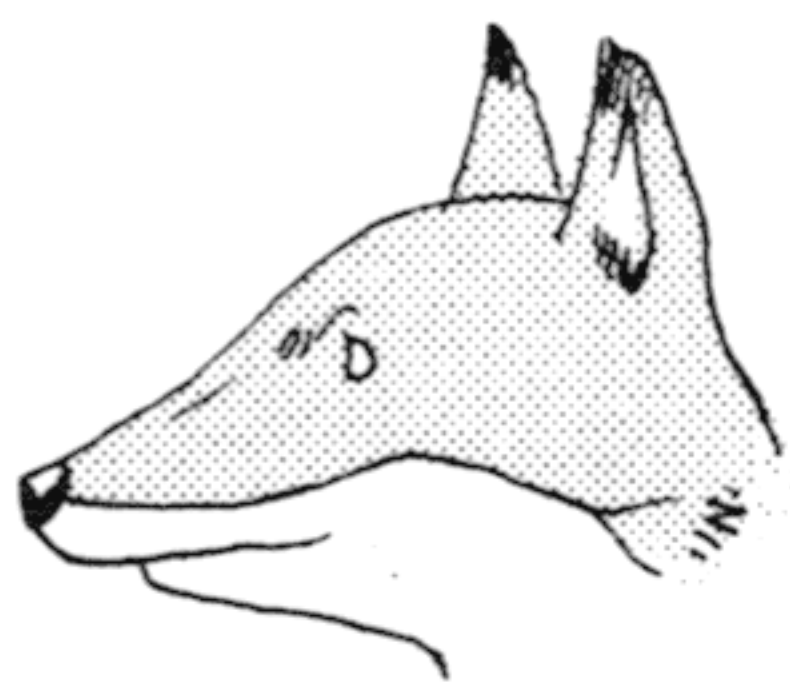
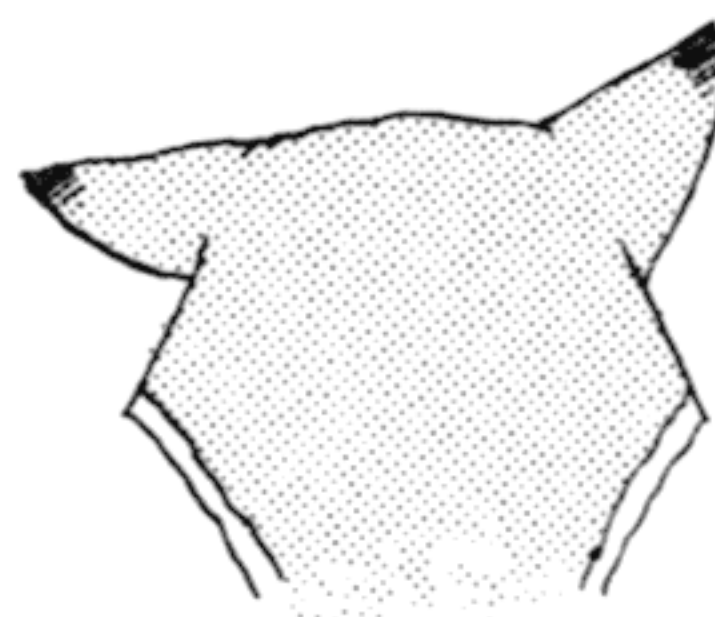
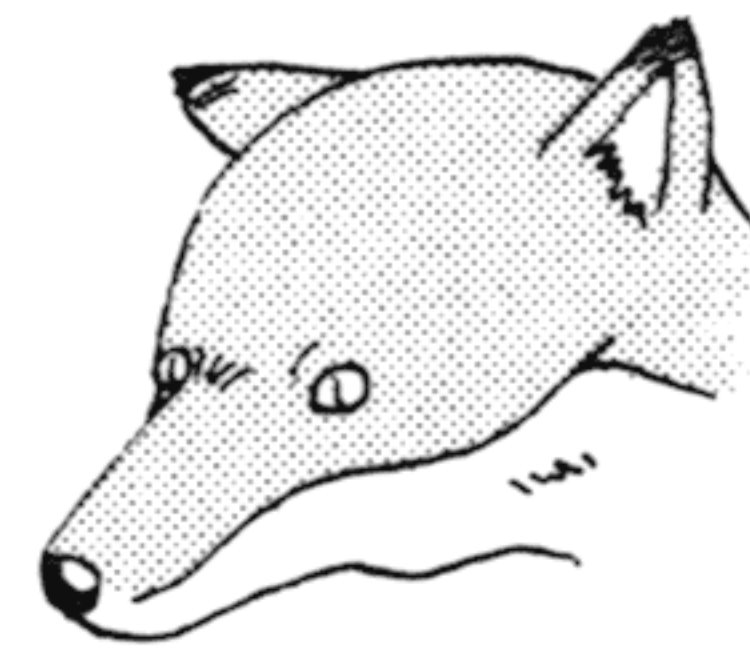
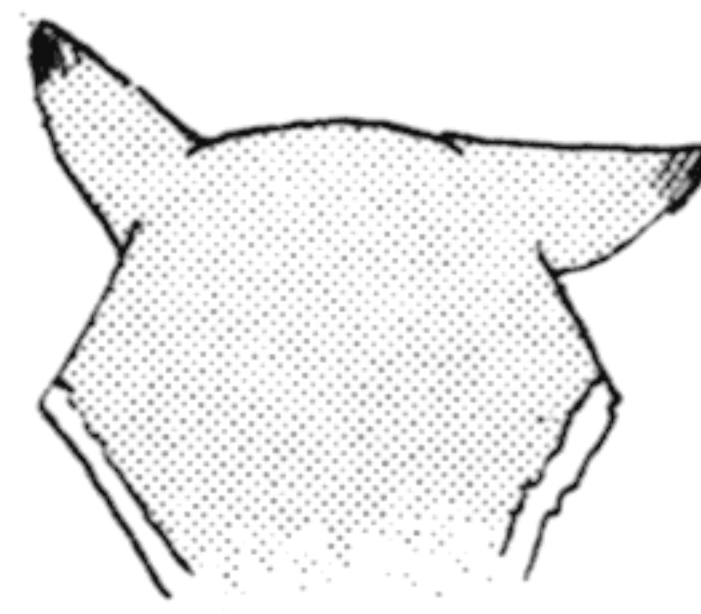
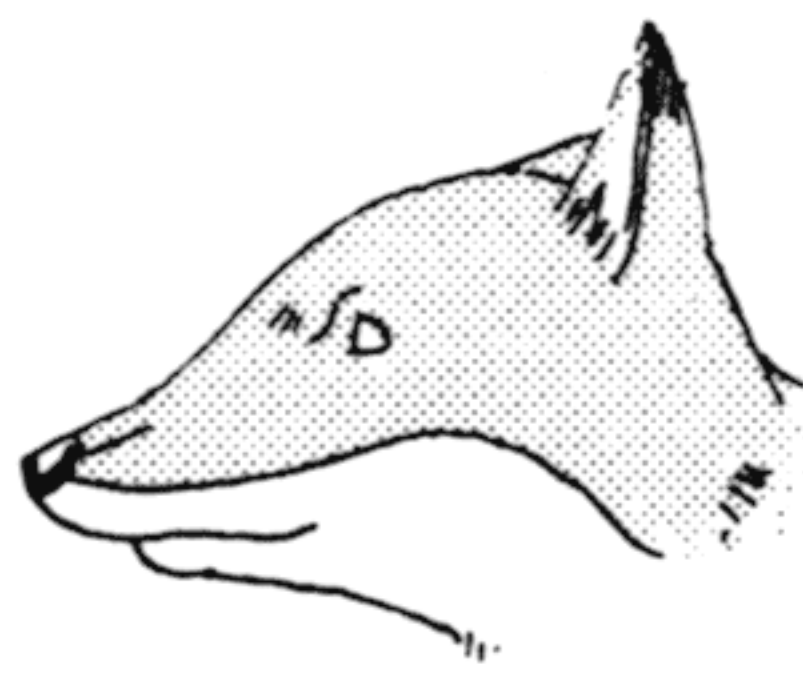
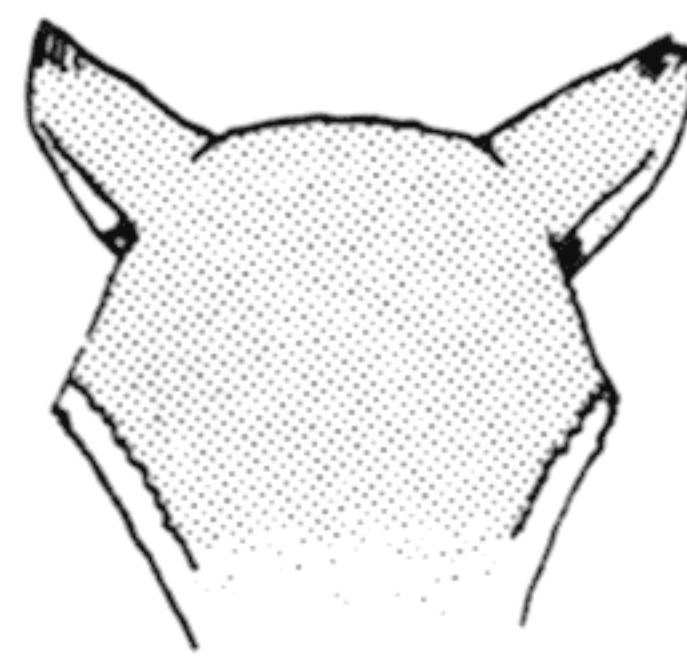
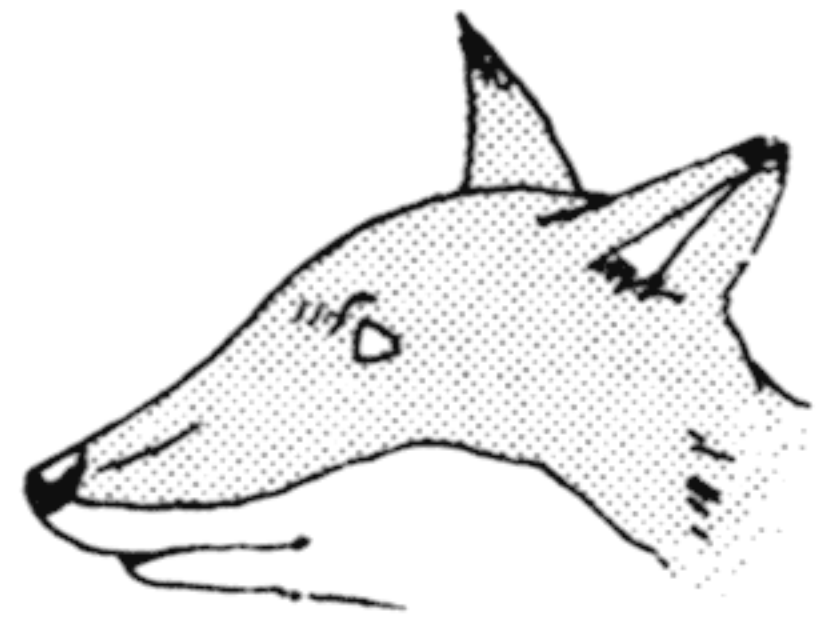
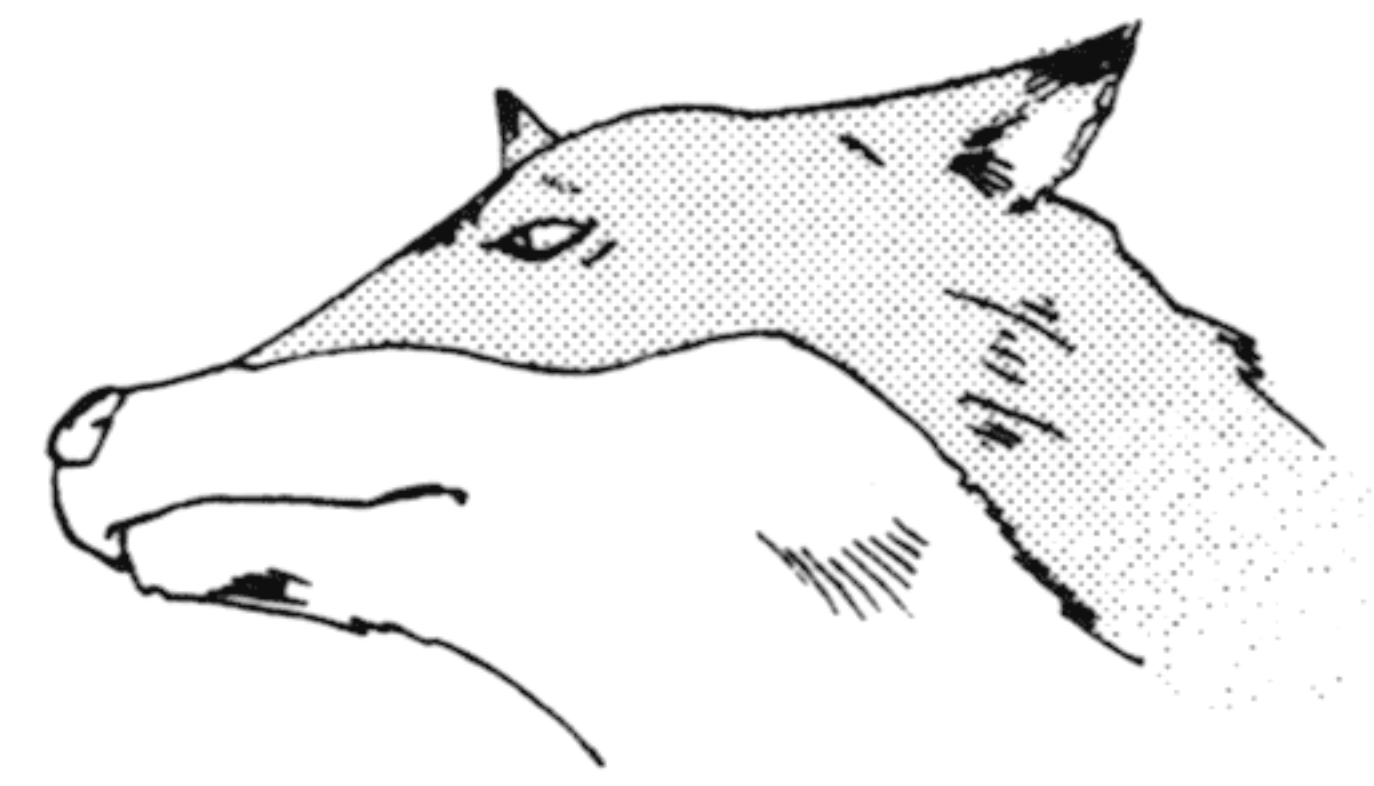
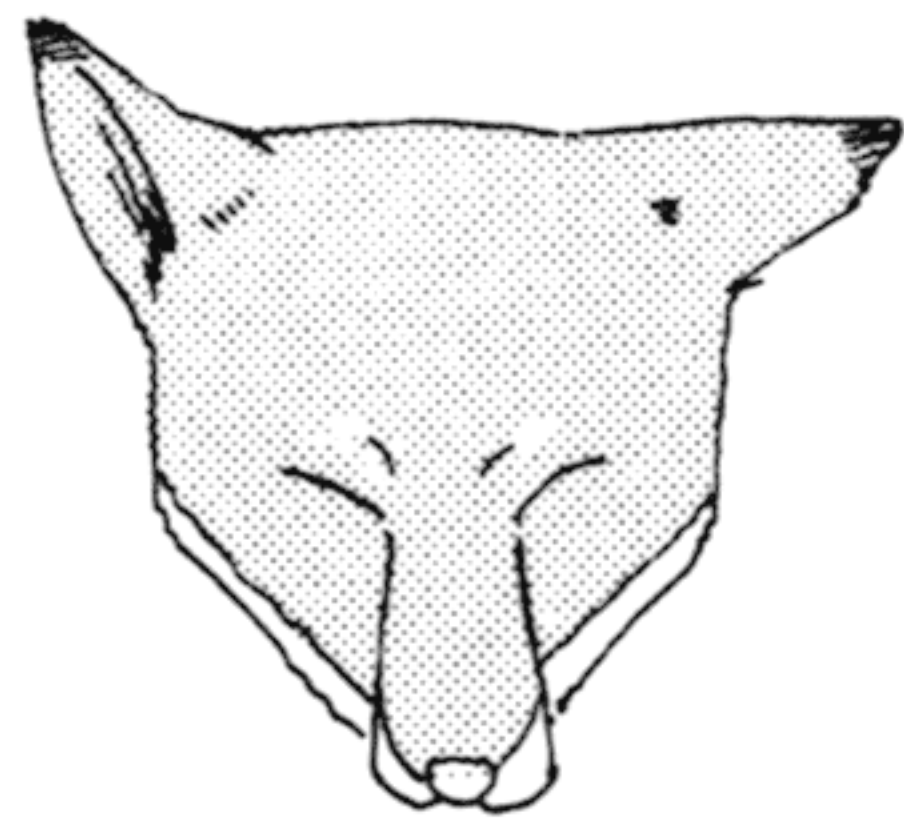


In the winter, the fox's coat increases to about 1.5 times its summertime volume.





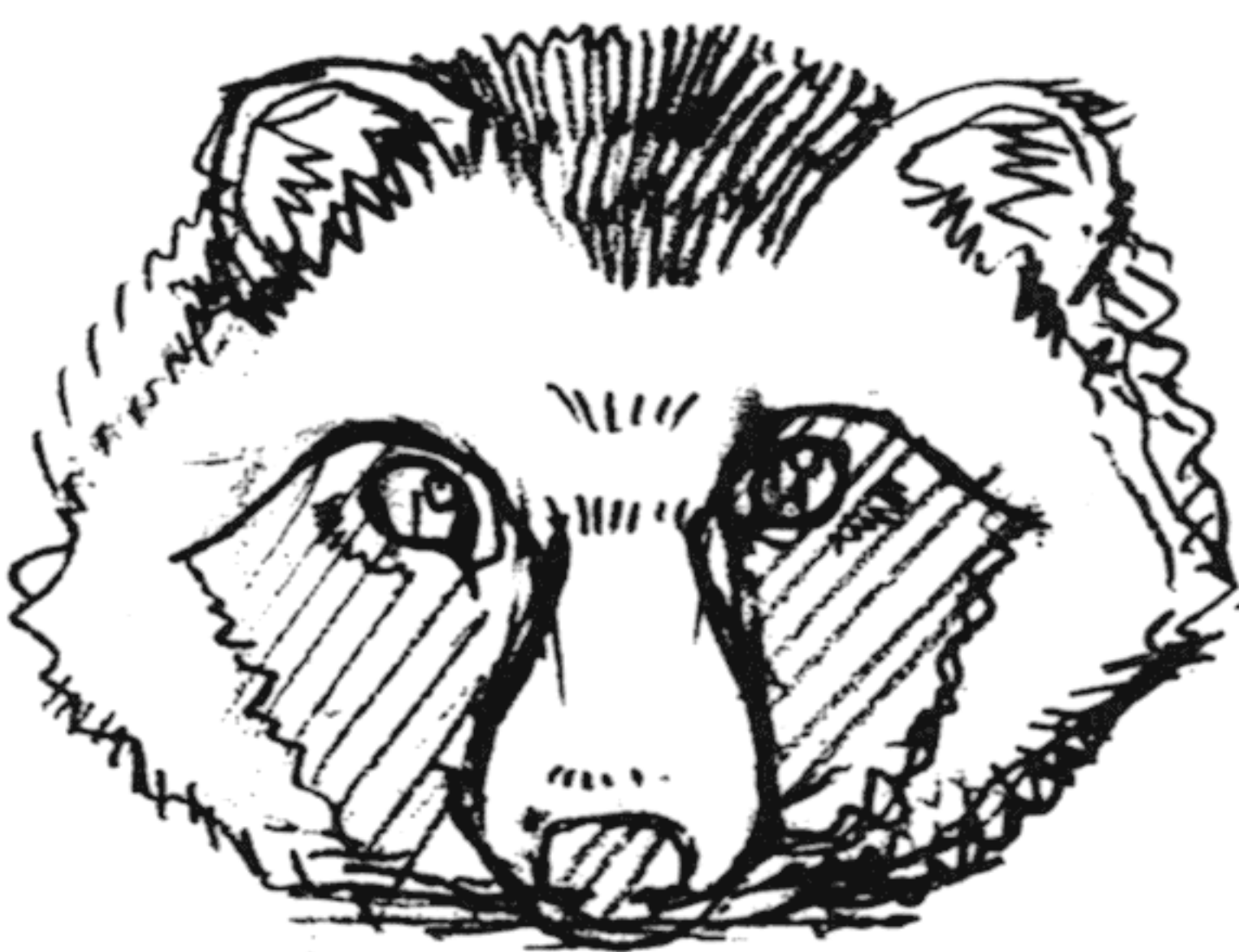
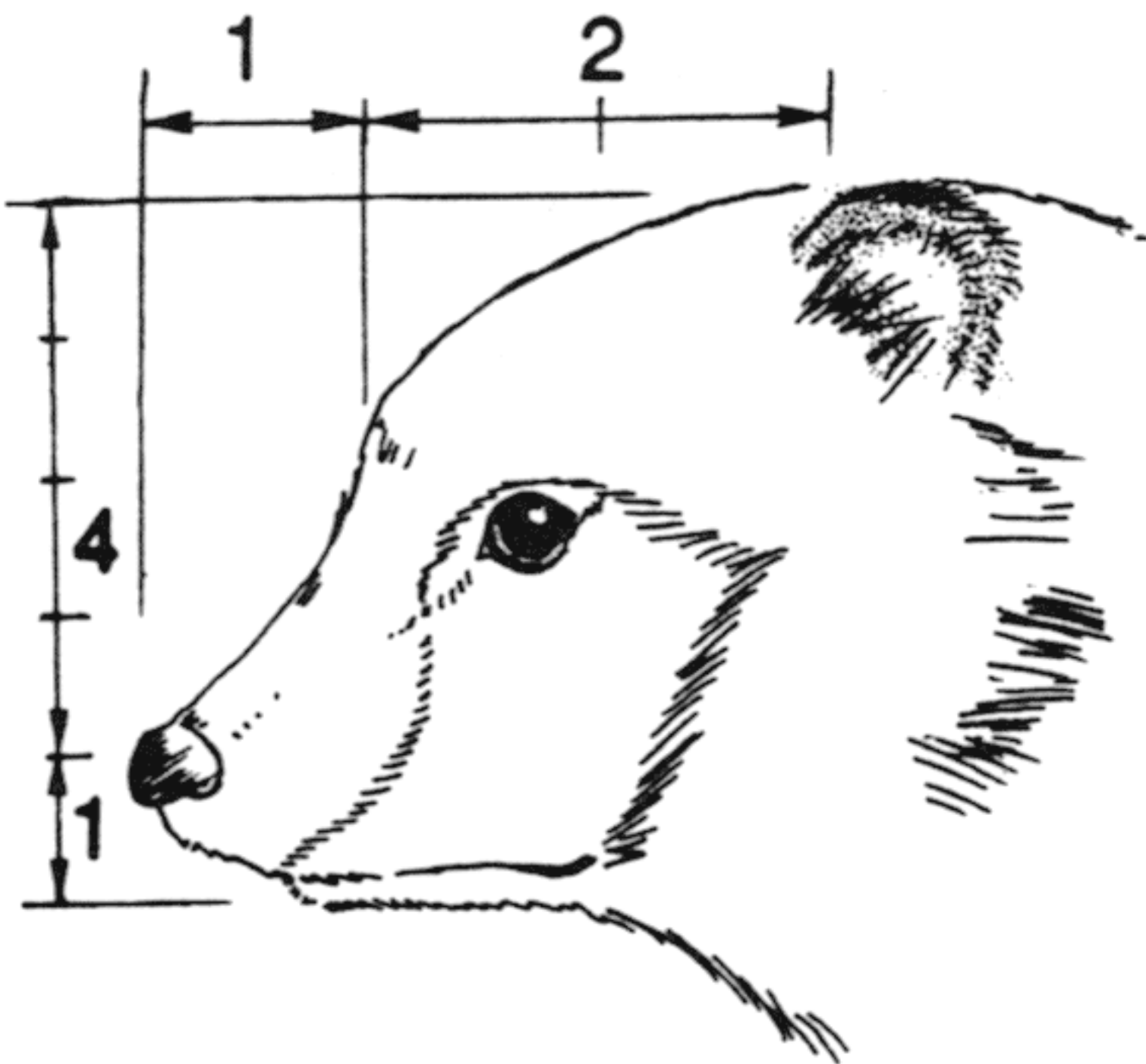
Ears: Not only are foxes' ears agile, but so are those of cats, deer, hippos, bears, and most other animals.



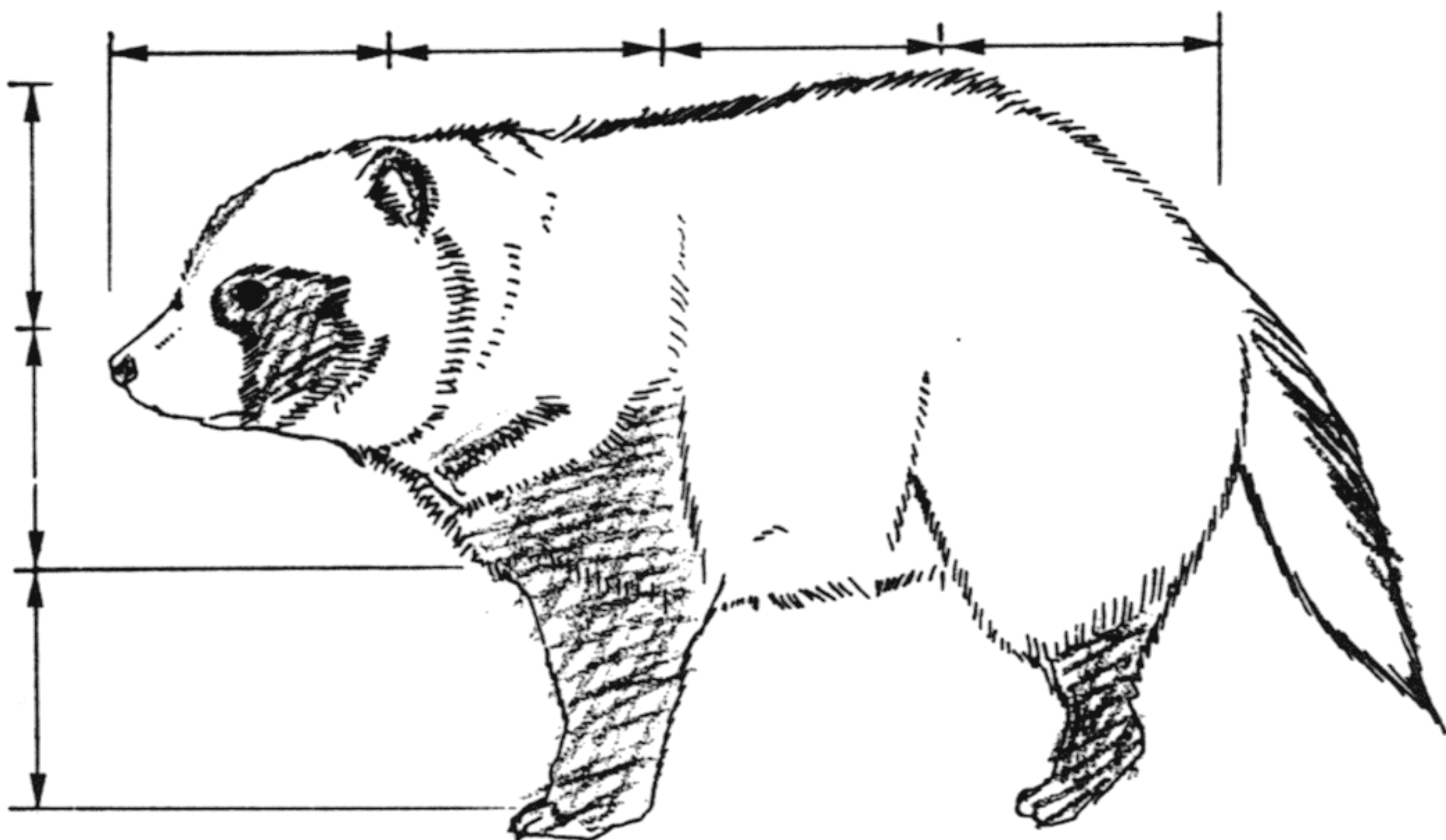


Raccoon Dogs

From the front, the raccoon dog has a wide, hexagonal face. The ears are shaped like triangles with rounded points, forming a loop.



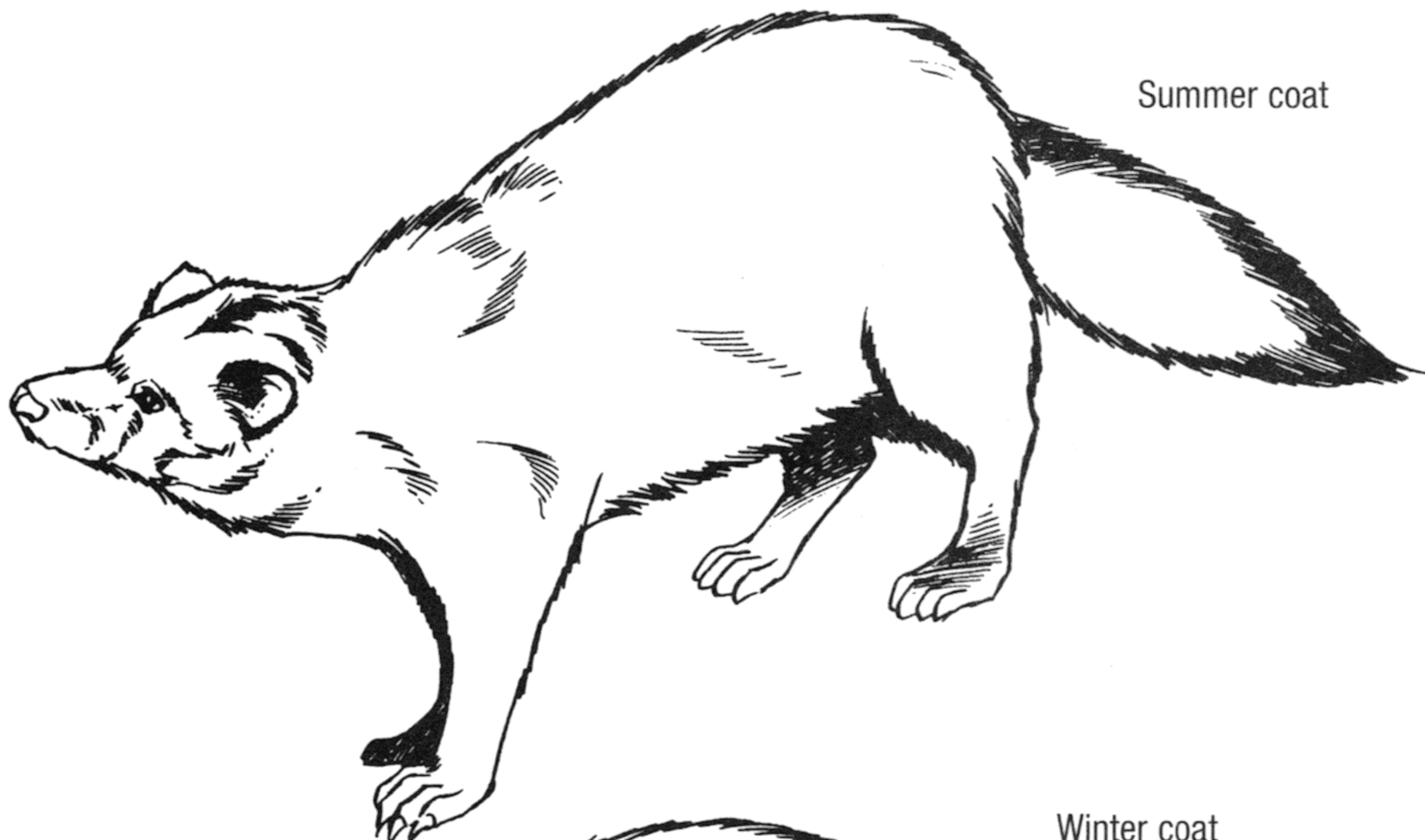
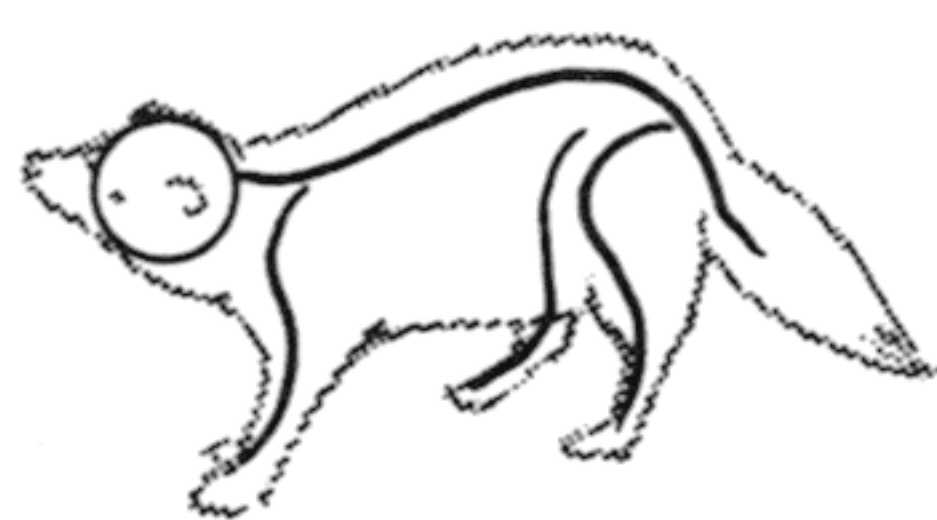
The tip of the nose, the area surrounding the eyes, and the legs are black. The ears are framed in black as well.



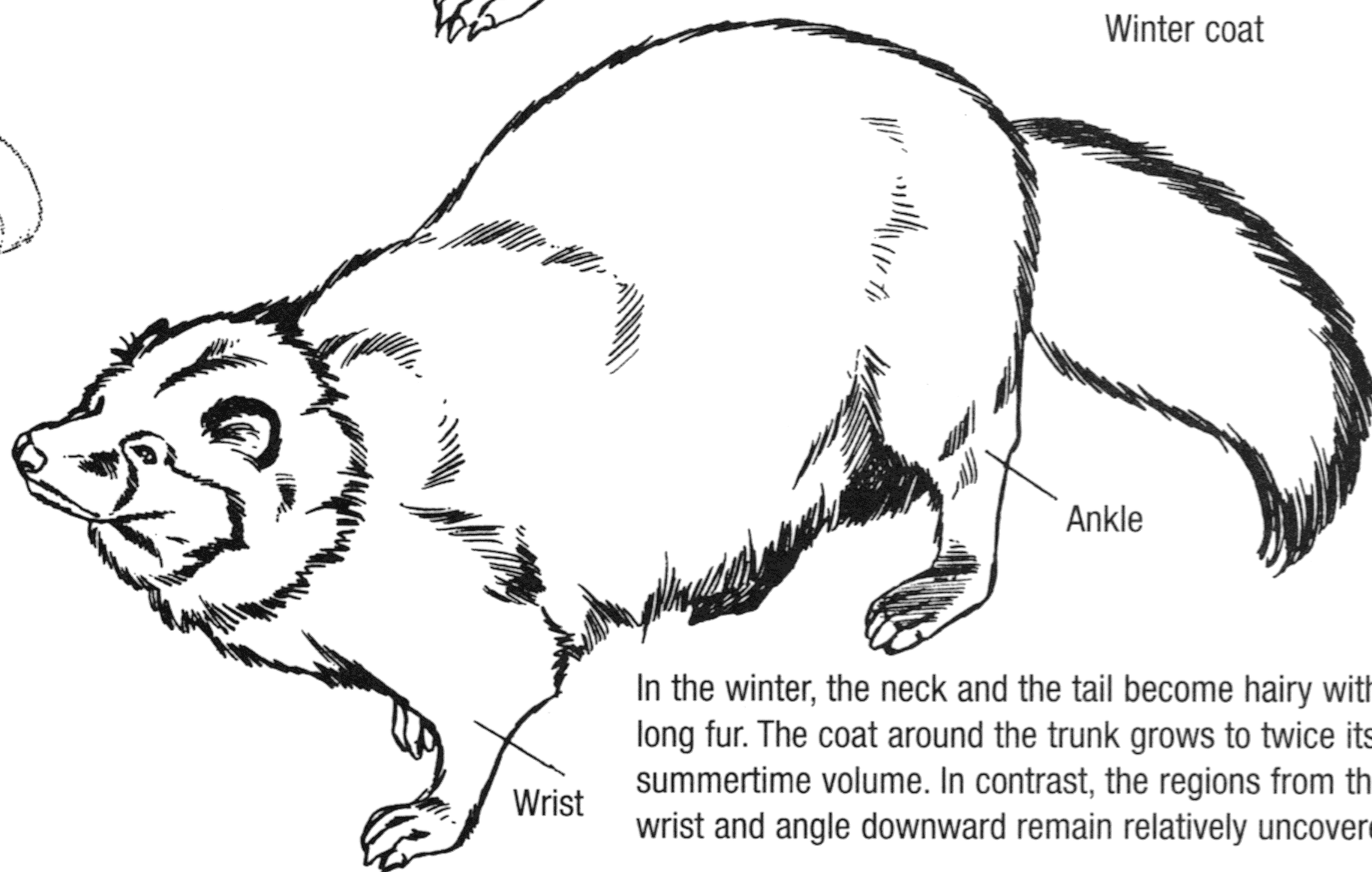
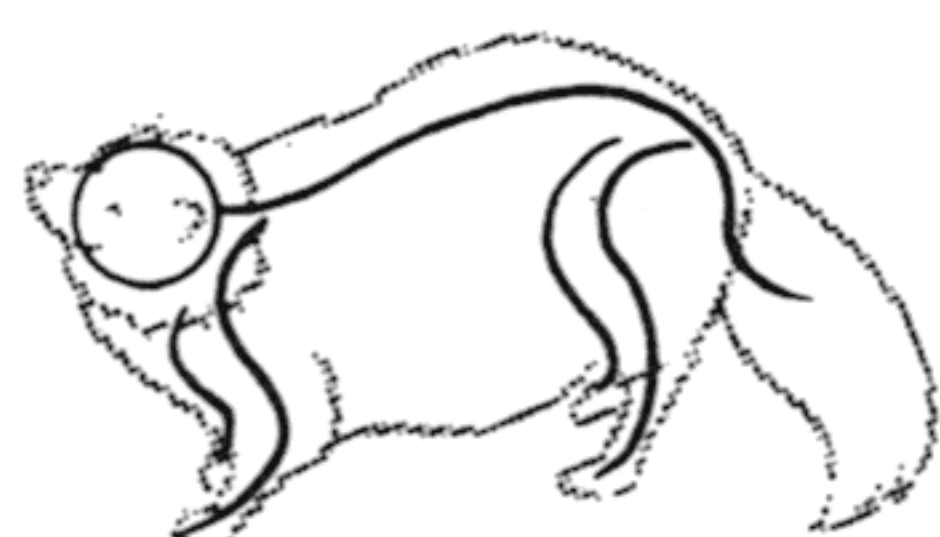
The claws are white.







Summer coat



Winter coat

In the winter, the neck and the tail become hairy with long fur. The coat around the trunk grows to twice its summertime volume. In contrast, the regions from the wrist and angle downward remain relatively uncovered.

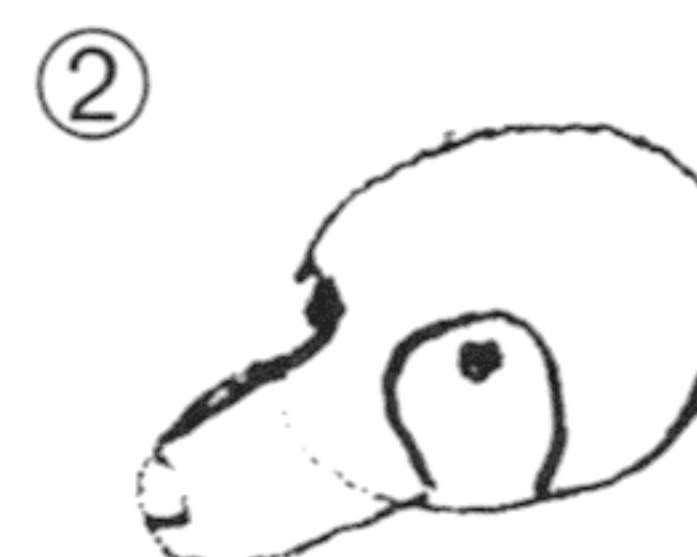
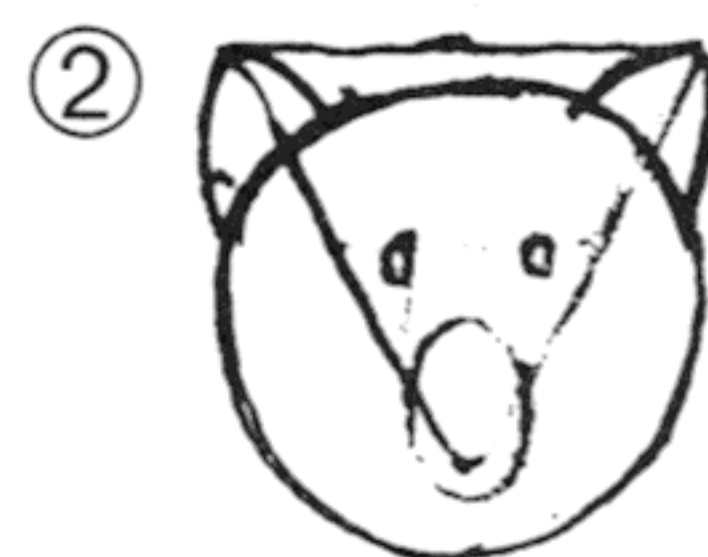
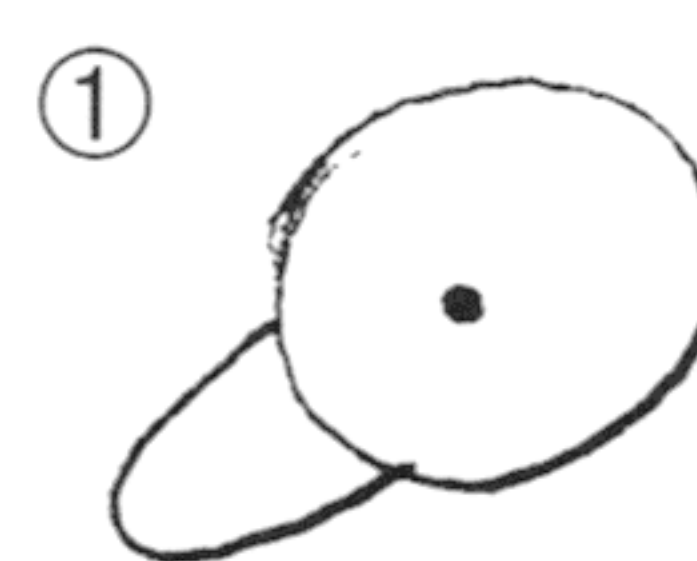
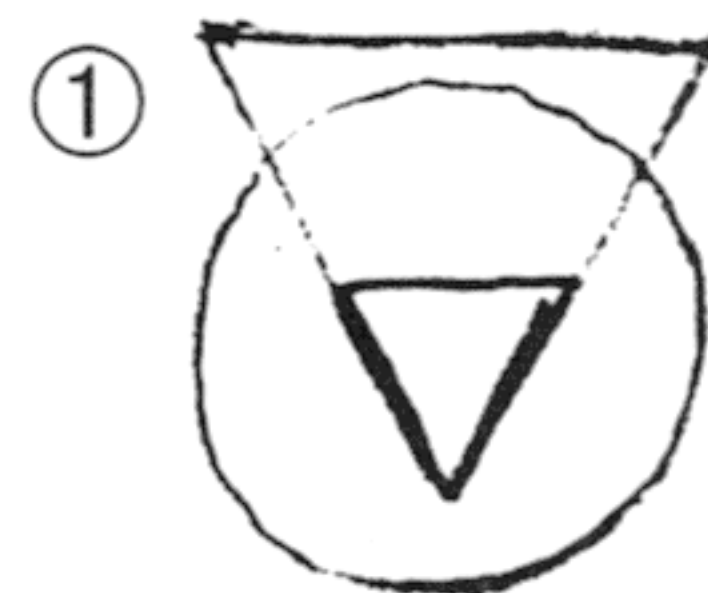


The ears are framed in black.

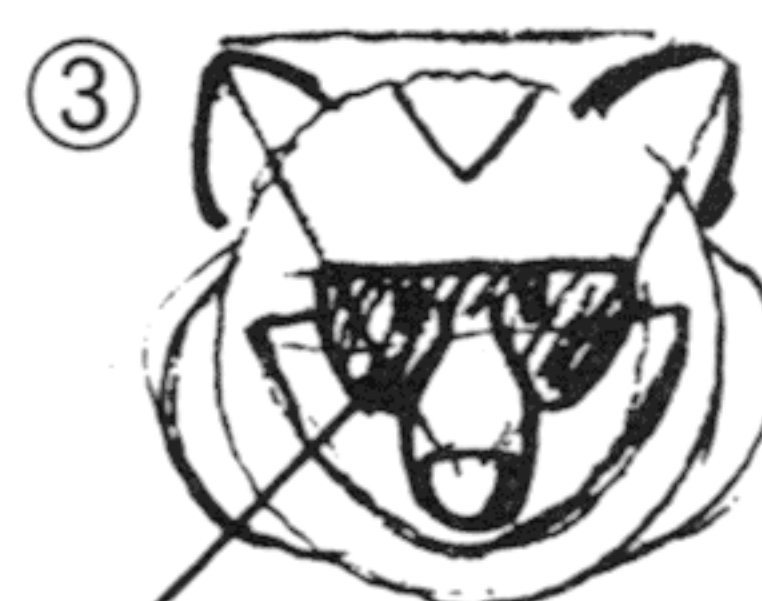


Use Circles and Triangles for the Face in Front View

For the Profile, Start with a Duck Head



The ears are rounded triangles.



The key lies in the line at the top of the nose found between the eyes.

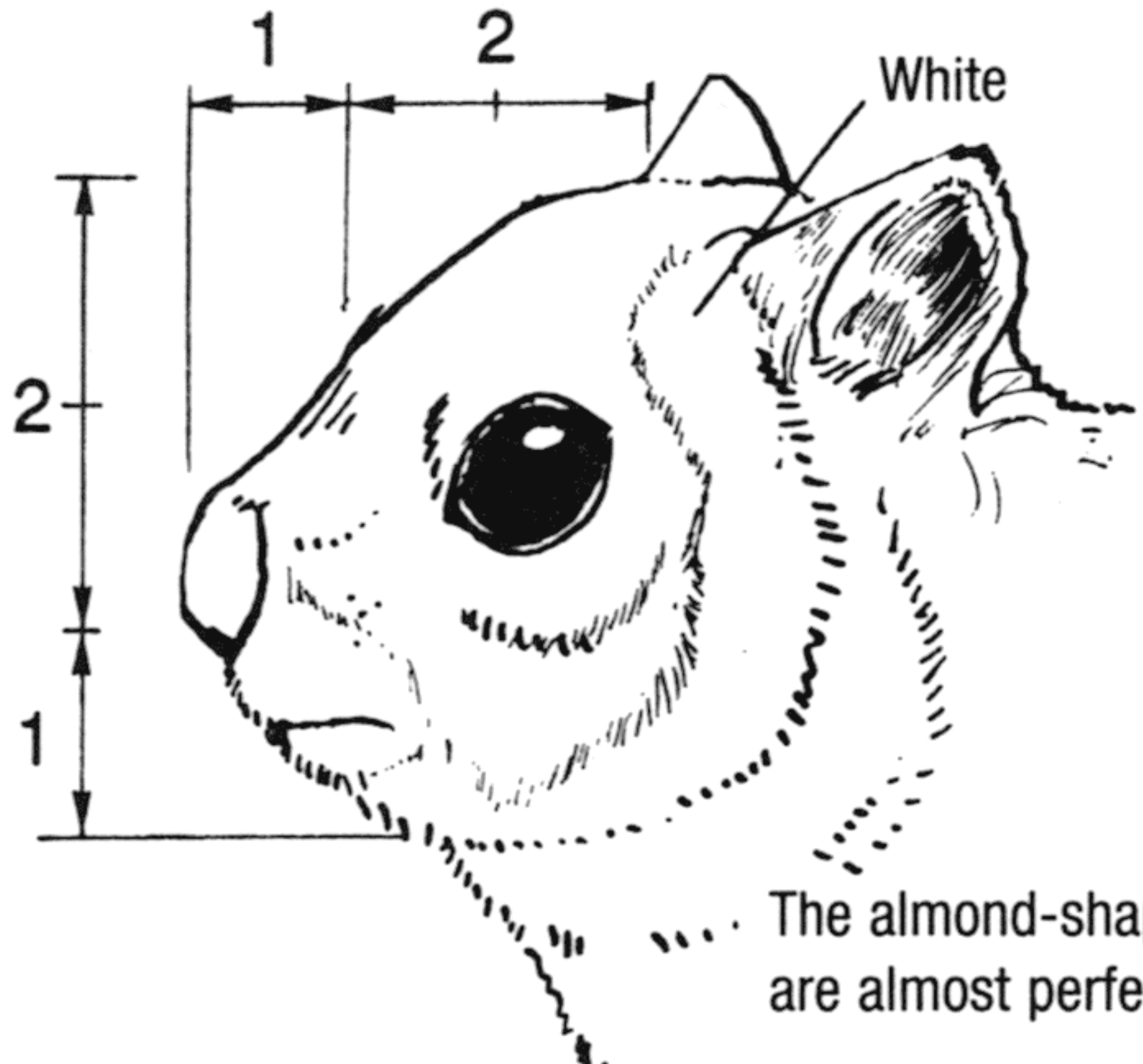
In profile, the ears' contours take on a semicircular shape.





Giant Flying Squirrel

Also known as a taguan, picture an over-sized mouse when drawing the giant flying squirrel. I recommend drawing the eyes about the same size as the nose.



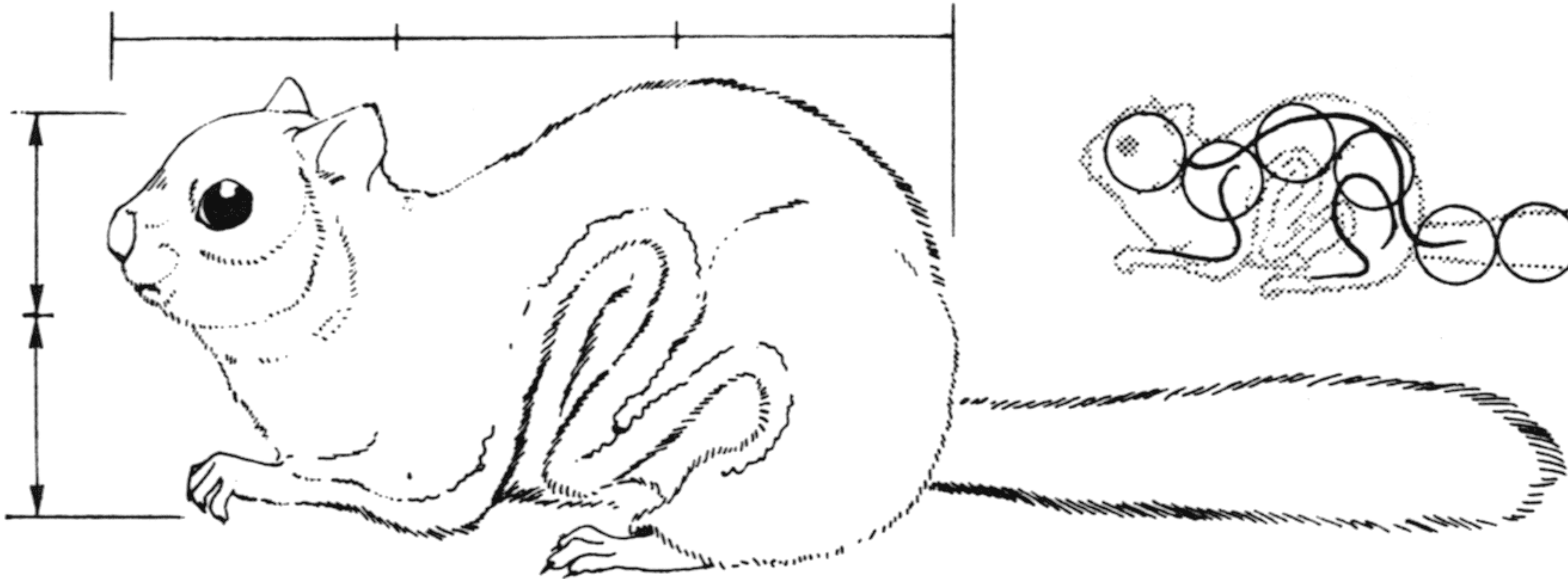
The almond-shaped eyes are almost perfectly round.



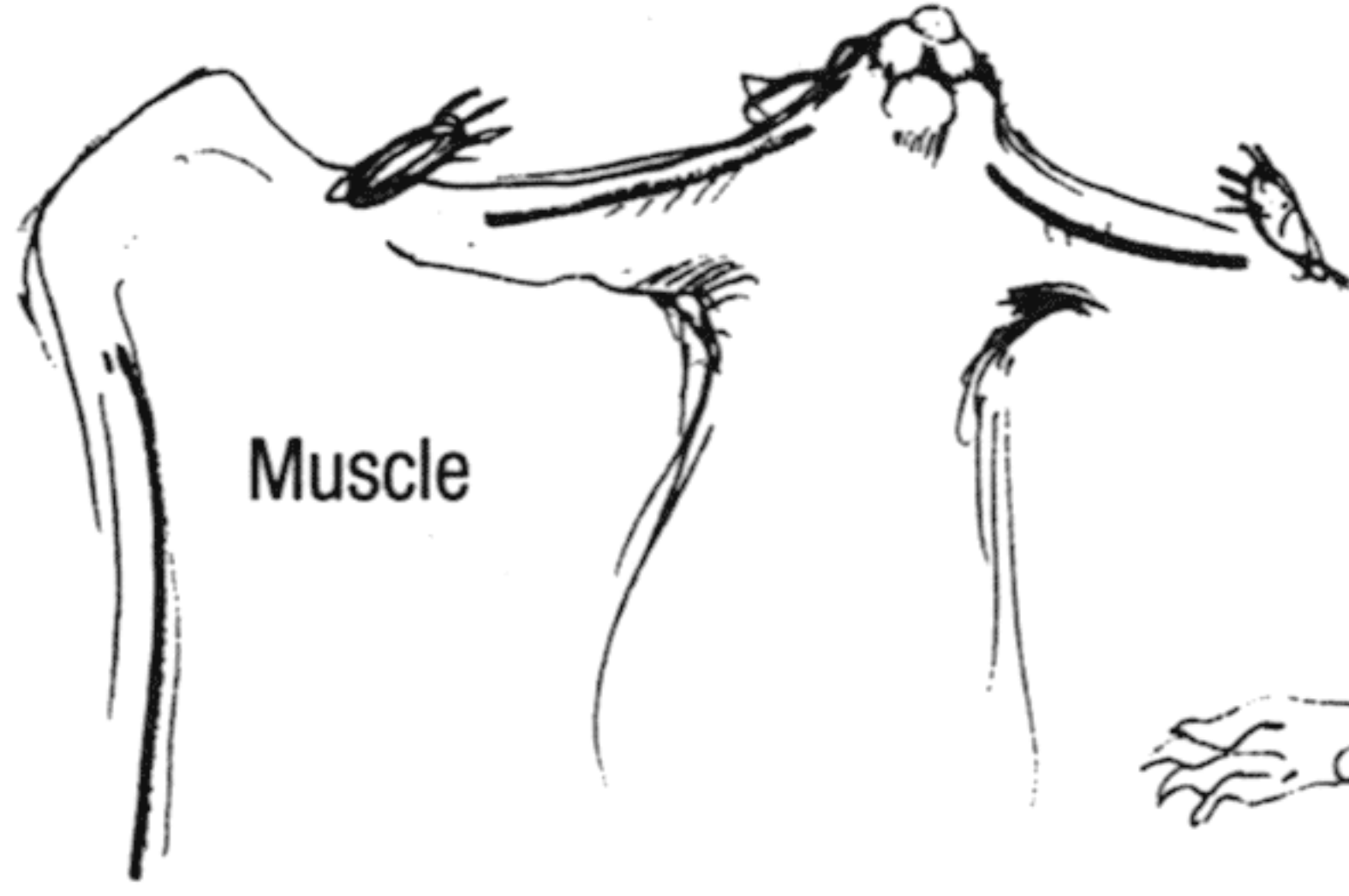
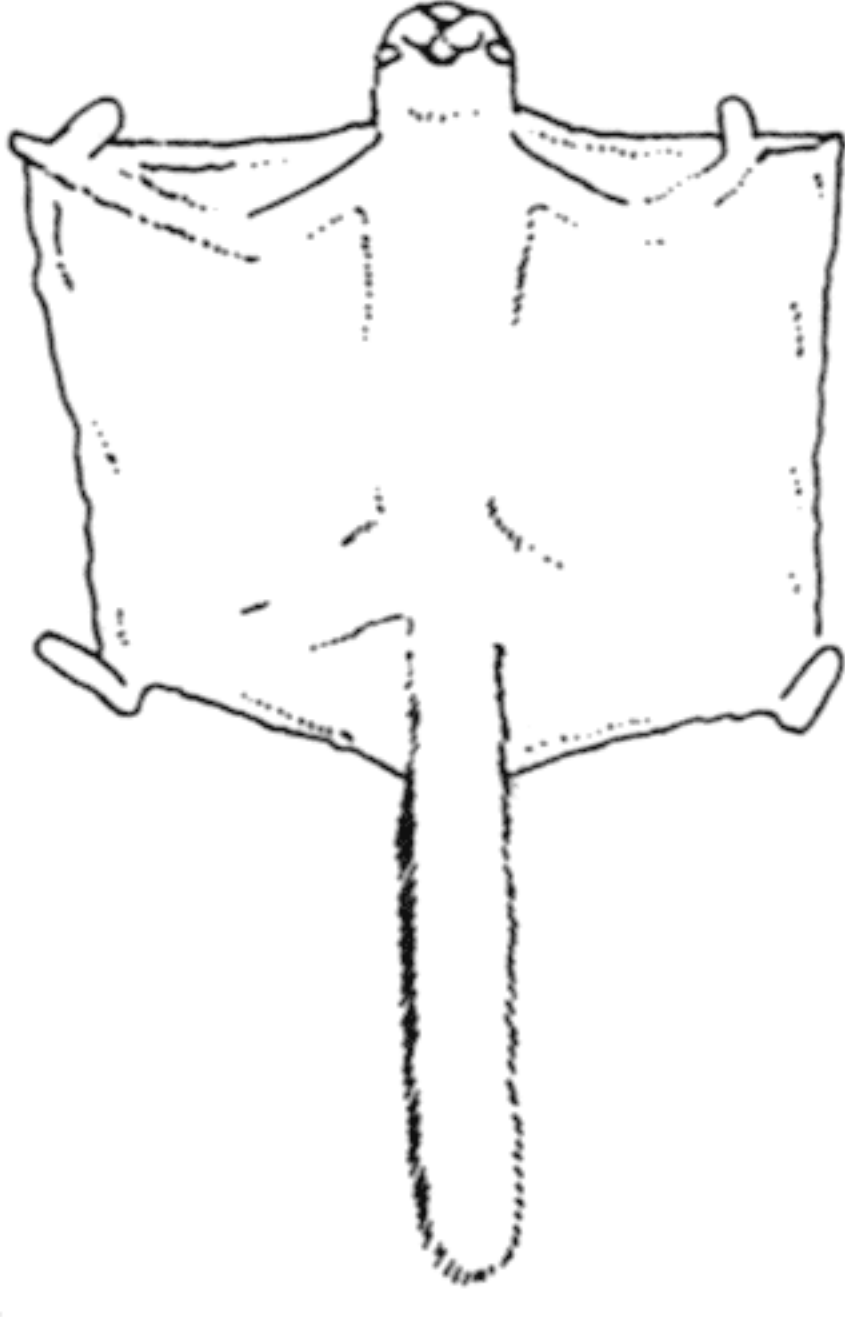
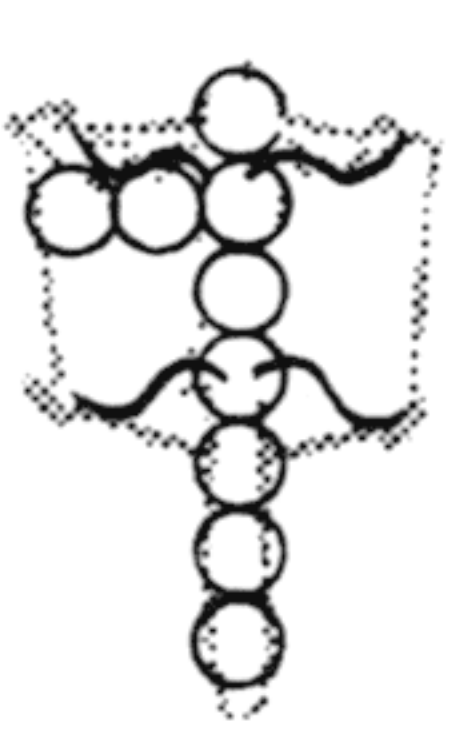
A band of white surrounds the head from the throat to above the eyes.



The eyes bulge out, making them appear to slant upward from a front view.



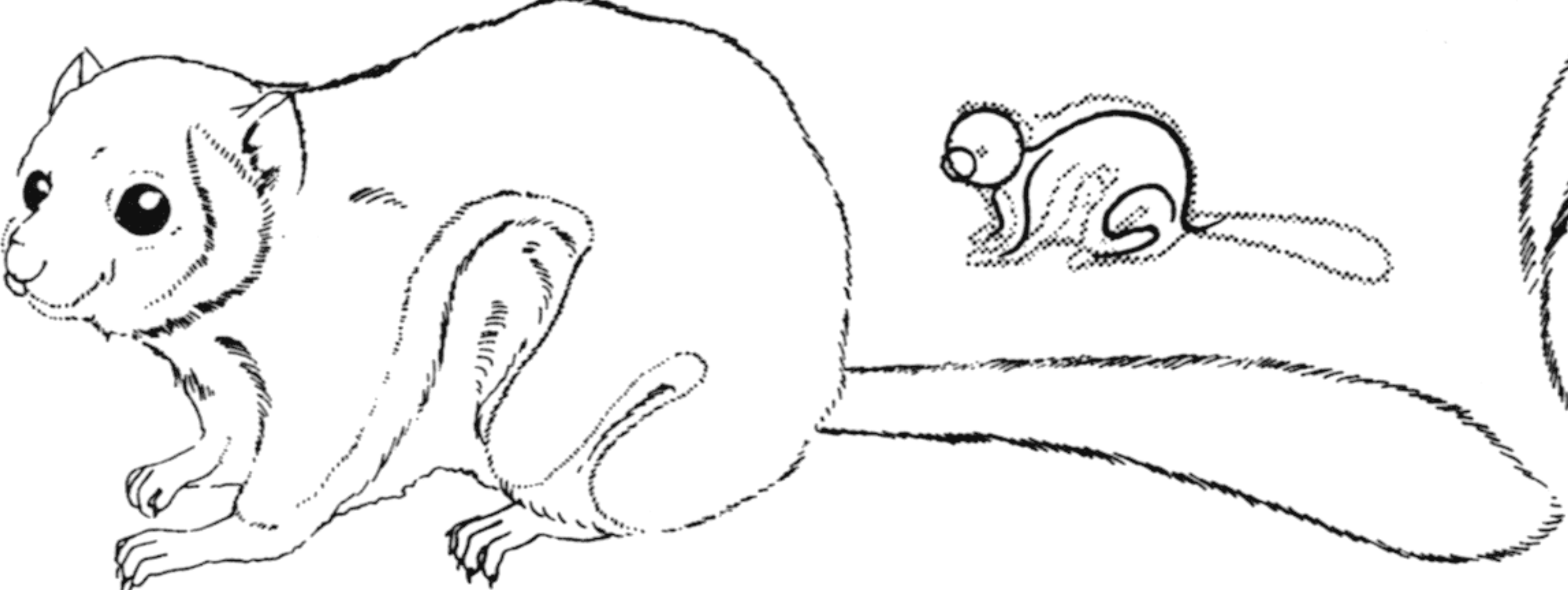
The flying squirrel has skin membranes between its fore and hind legs just like those of a bat.



Muscle



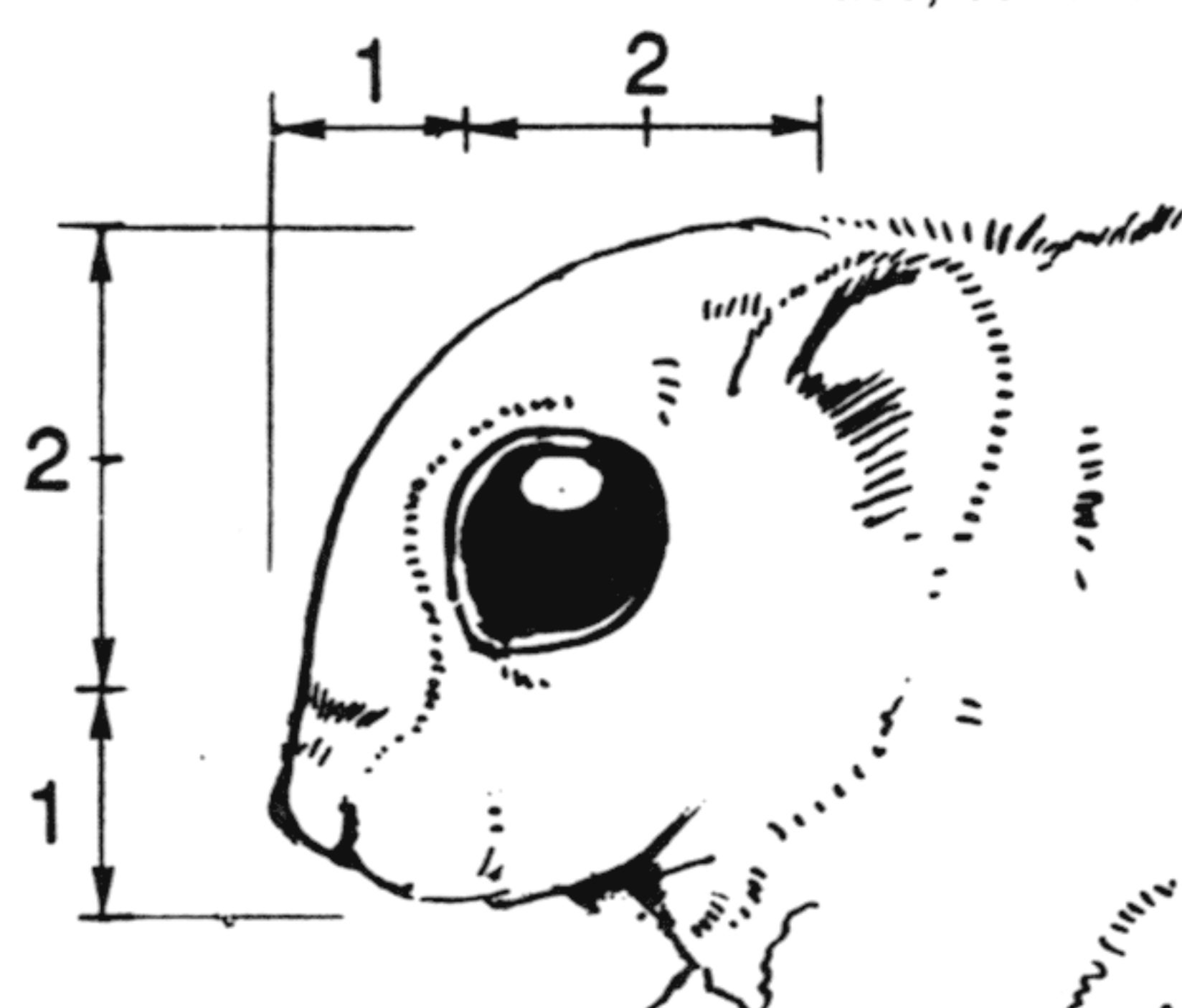
When depicting the flying squirrel gliding, use diagonal hatched lines to suggest fur pushed back by the breeze.



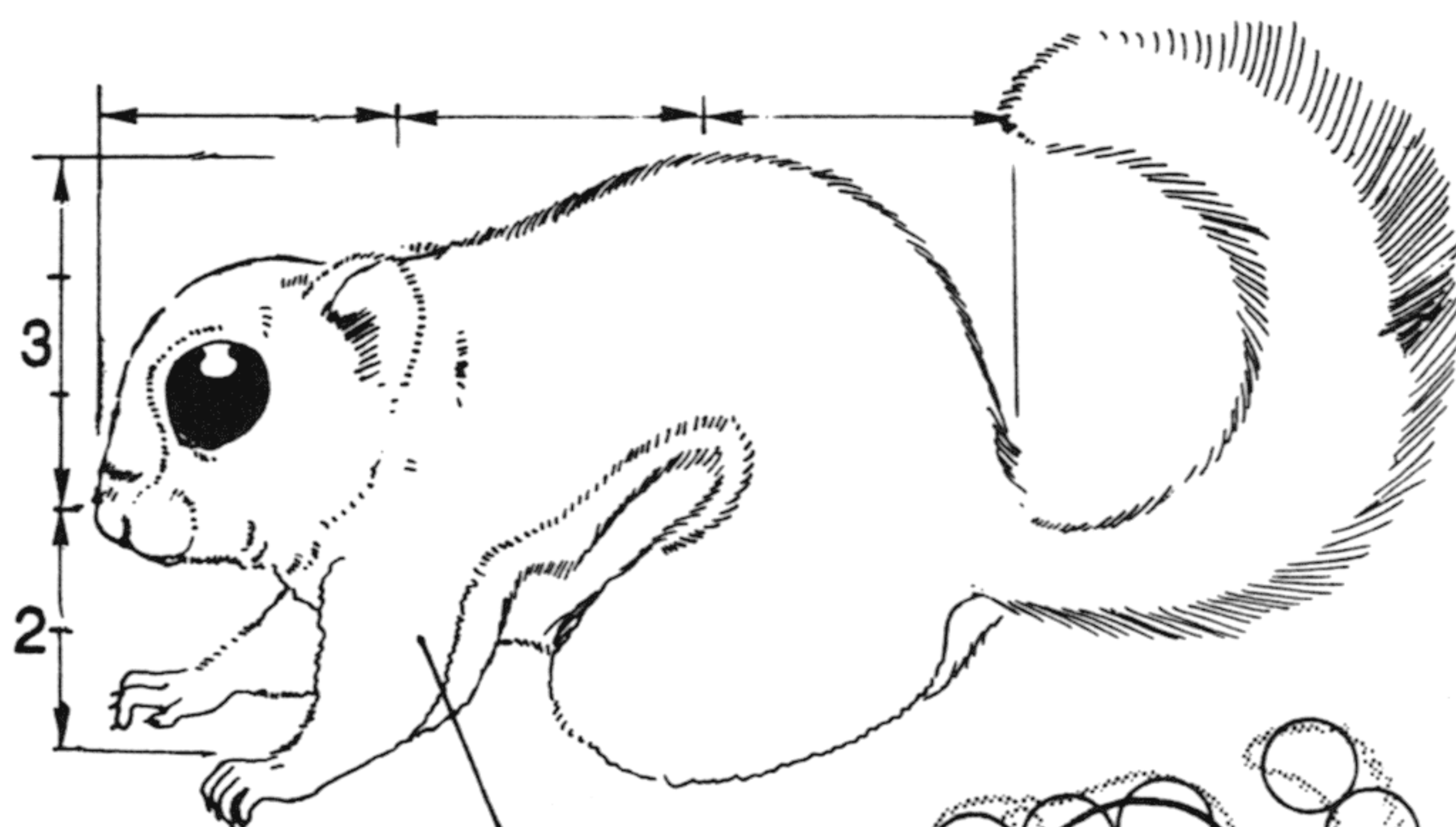
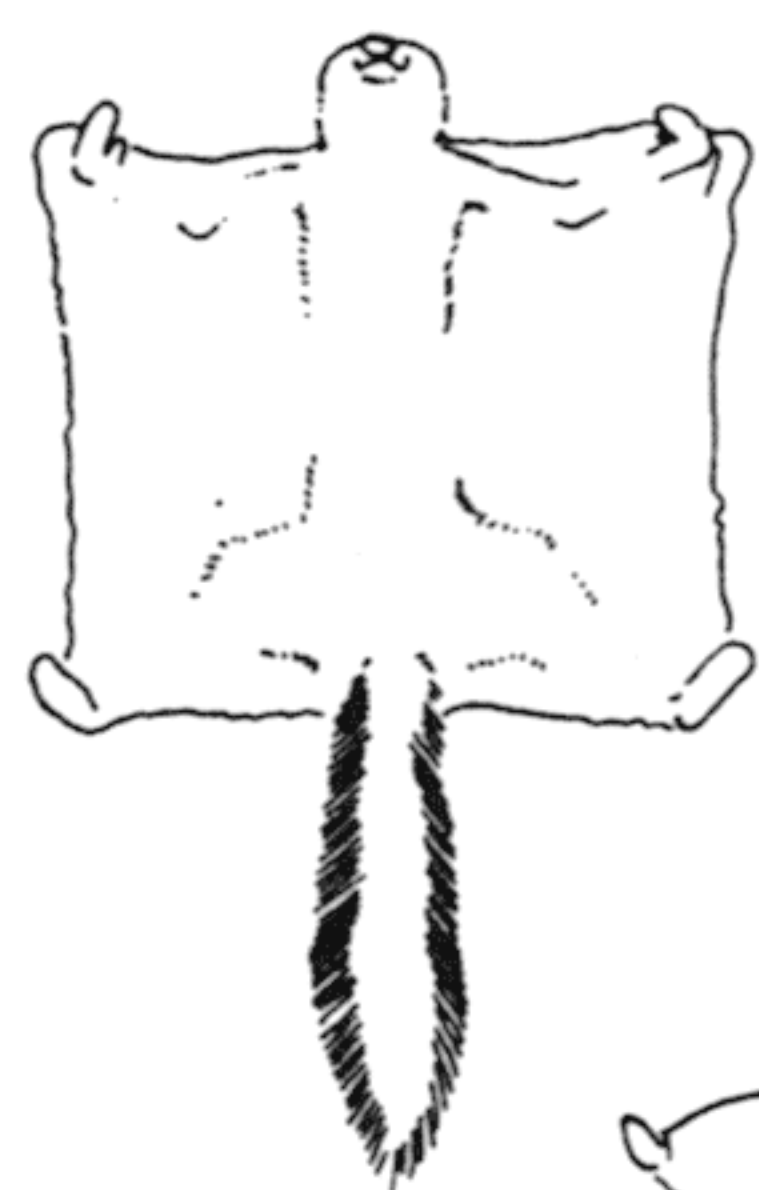


# Flying Squirrel

The flying squirrel is tiny, measuring at around 15 cm (approx. 6"), about 1/3 the size of a giant flying squirrel. To draw a convincing flying squirrel, give it a rodent's face, but with eyes about three times the size of those found on a mouse.



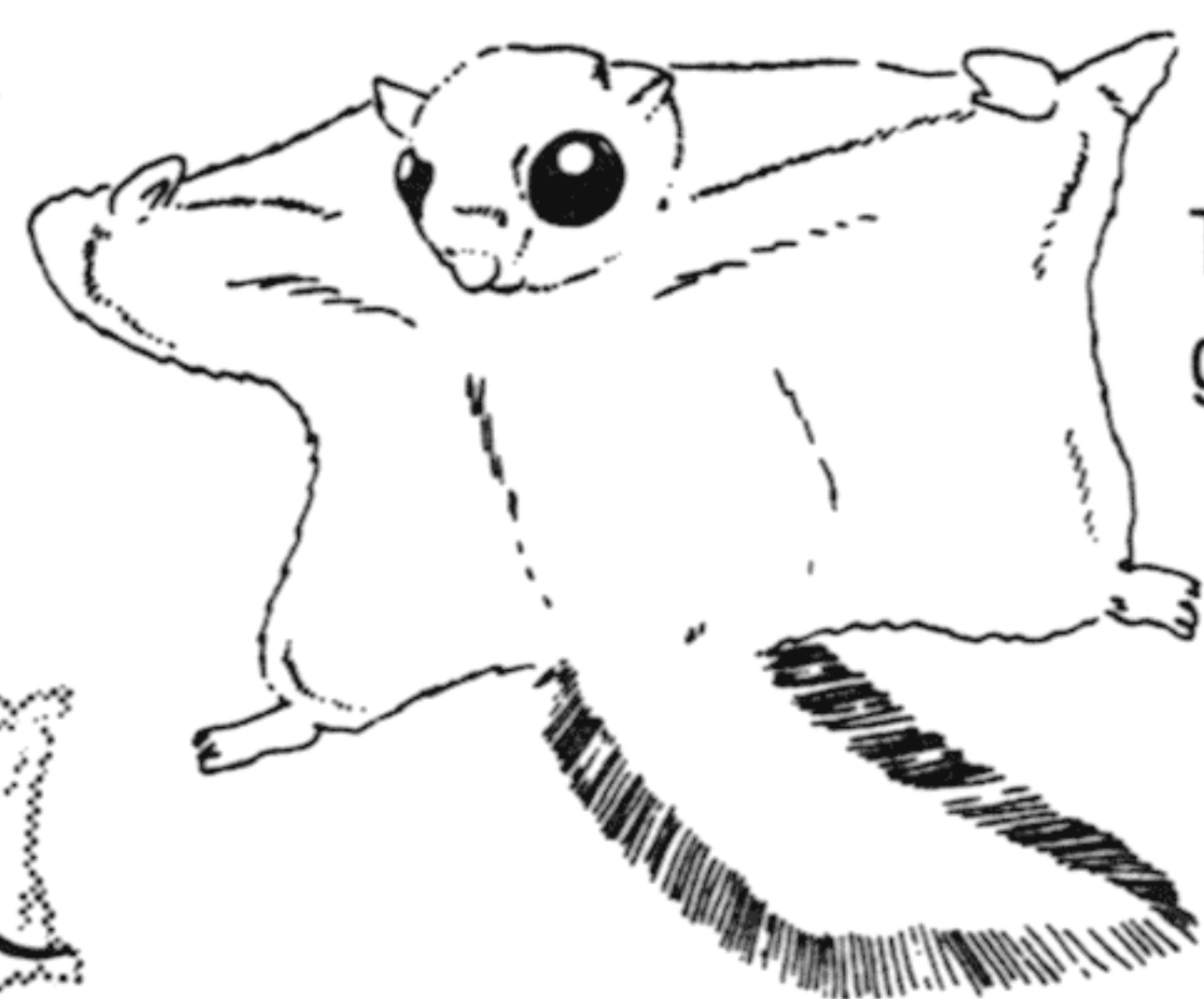
Take careful note that while the eyes form almost perfect circles from the side, from a front view, they are vertically oblong.



The forelegs appear thick owing to the skin membrane used for gliding.



The flying squirrel can flip its tail, which is bushier than that of the giant flying squirrel, over its back or curl it over its upper body.



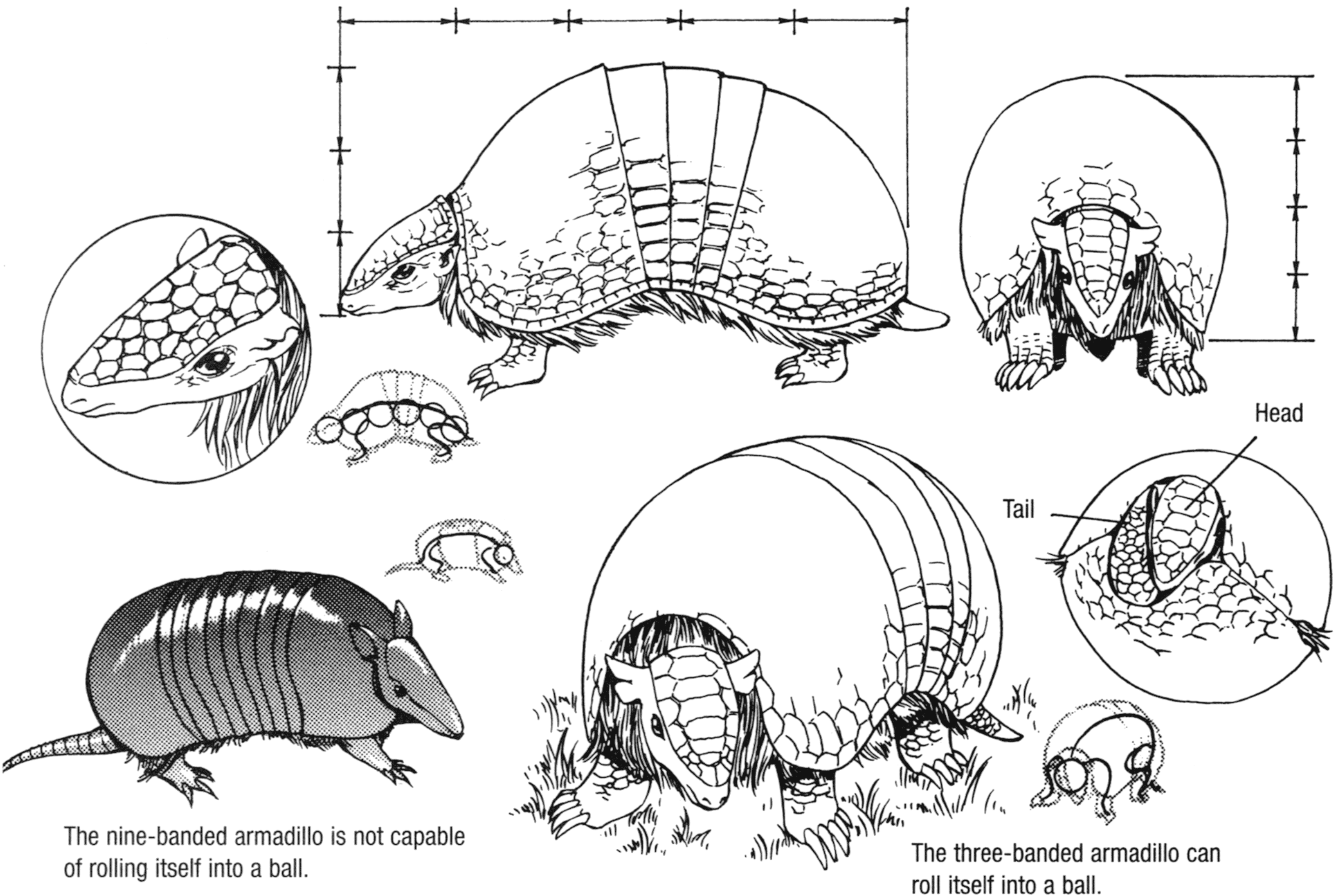
The tail is flat.





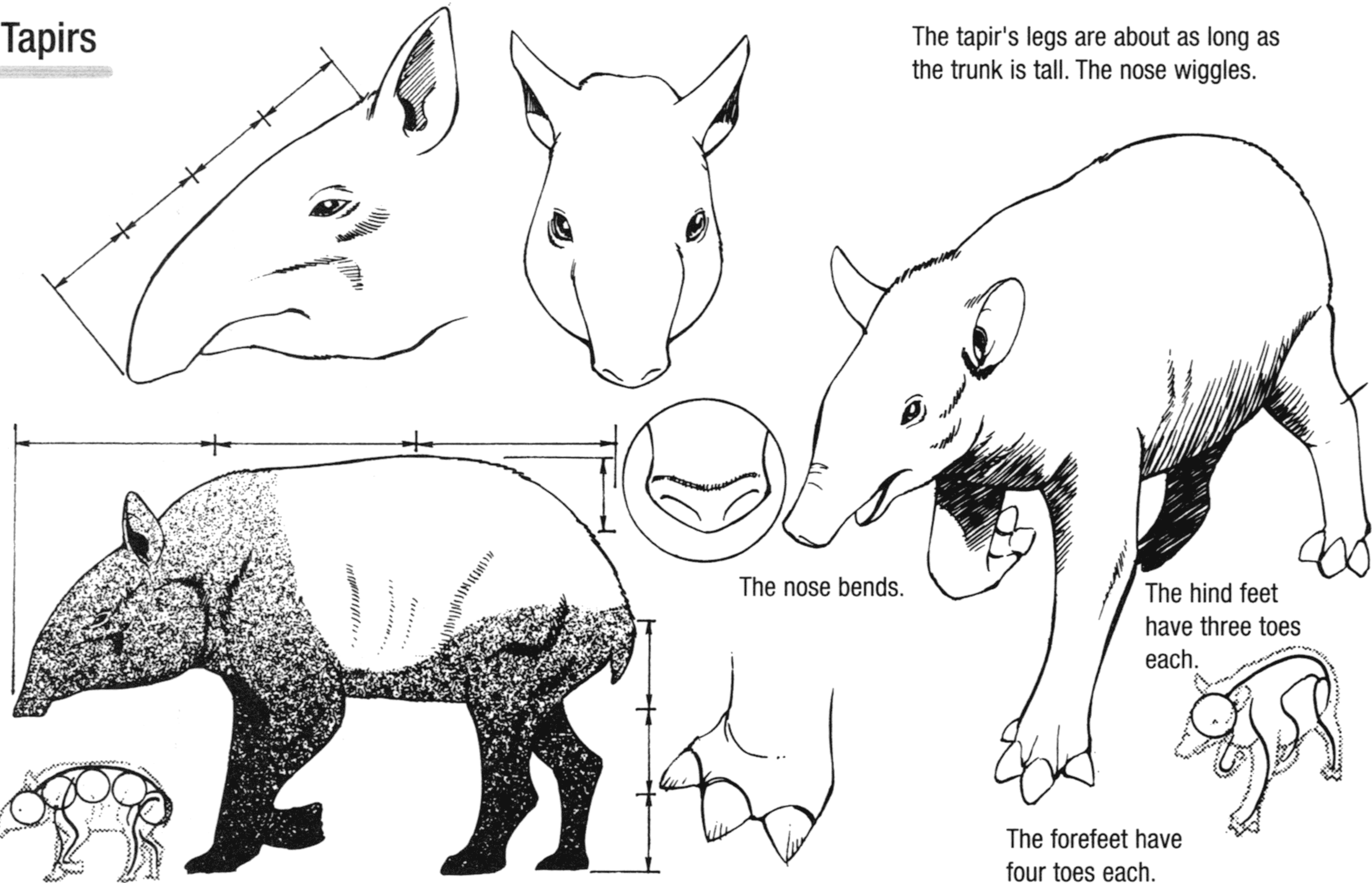
Armadillos

The three-banded armadillo is the only able to roll itself up into a ball. None of the other armadillo species are capable of this feat.



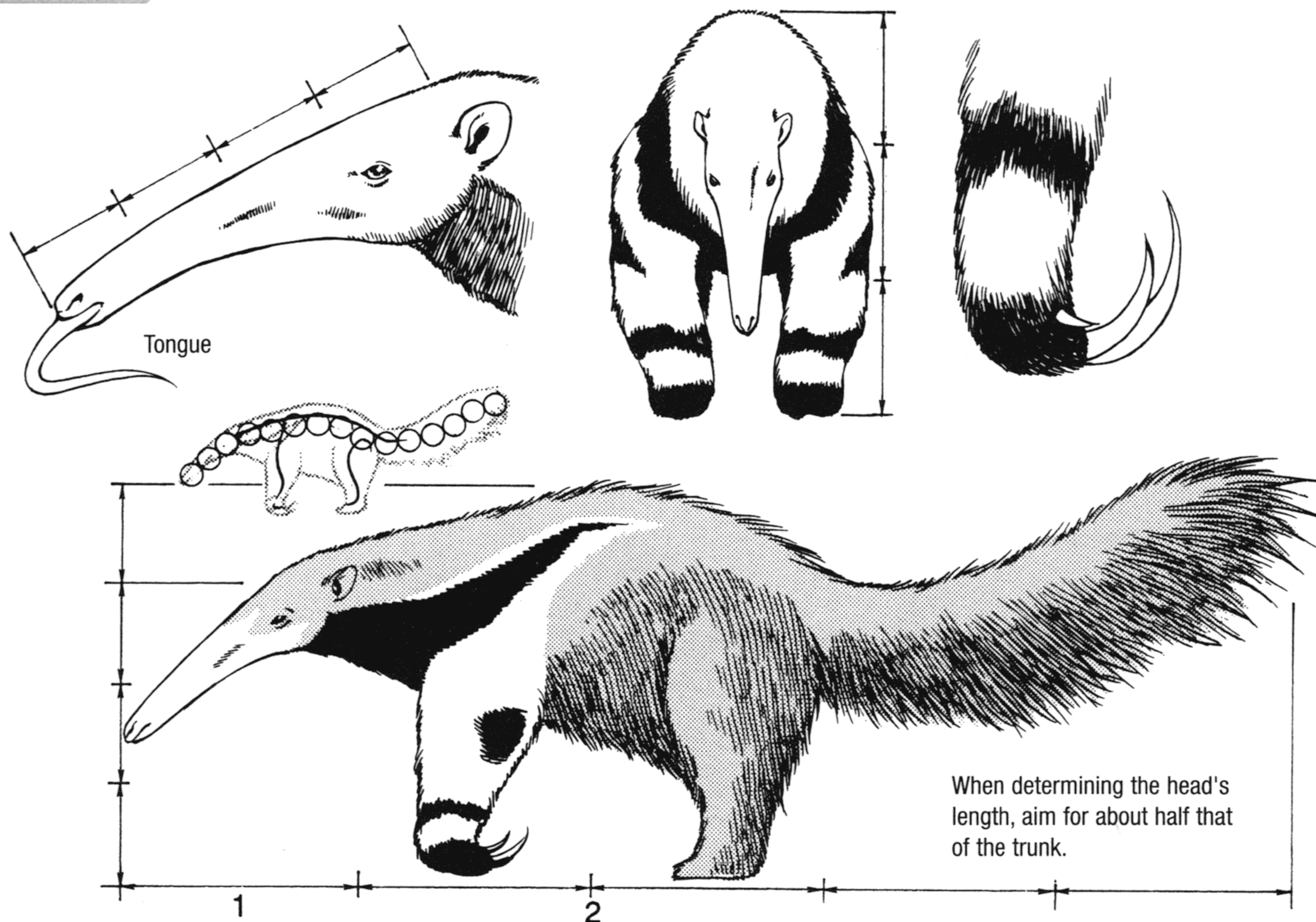
Tapirs

The tapir's legs are about as long as the trunk is tall. The nose wiggles.

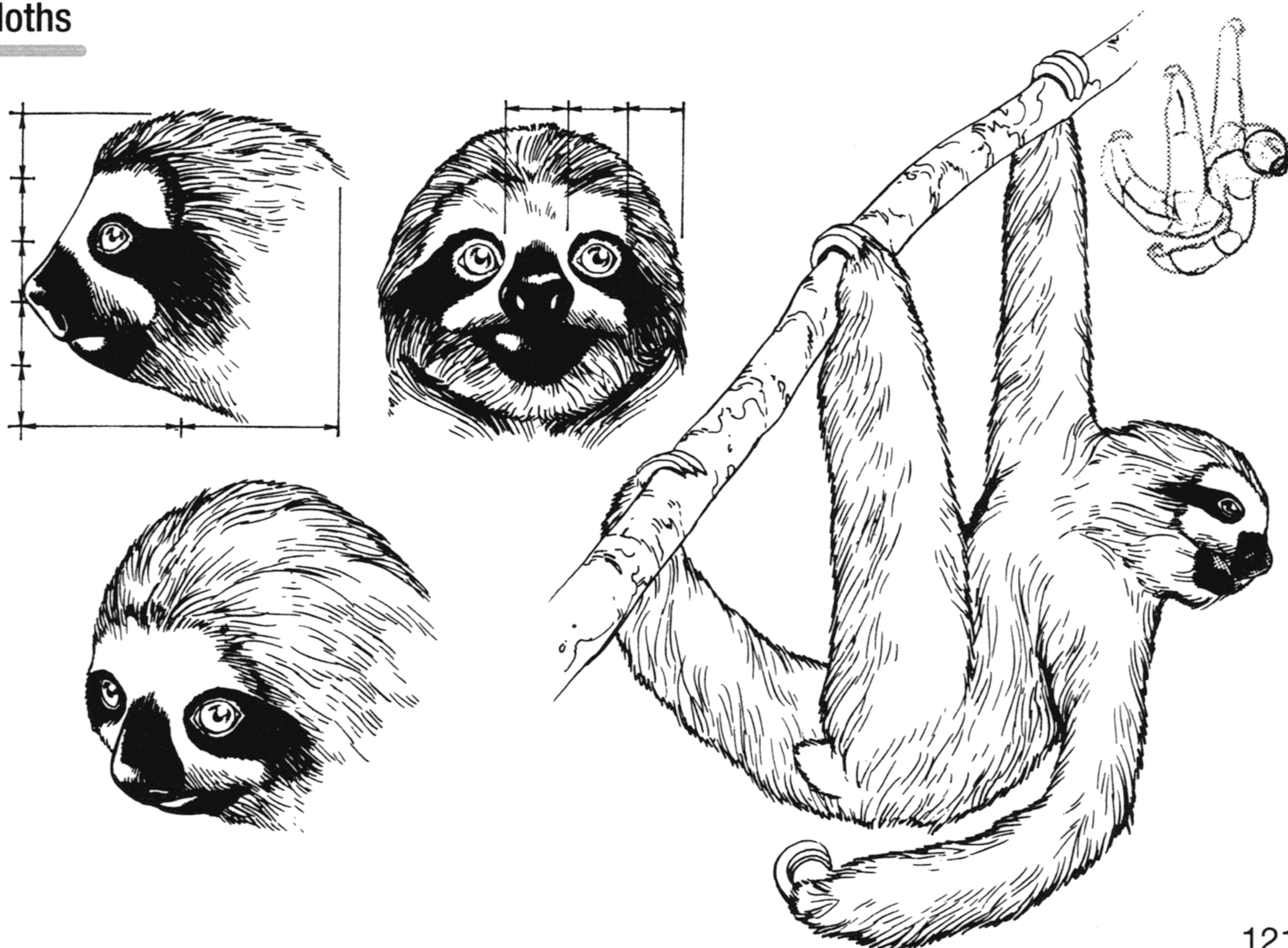




## Anteaters



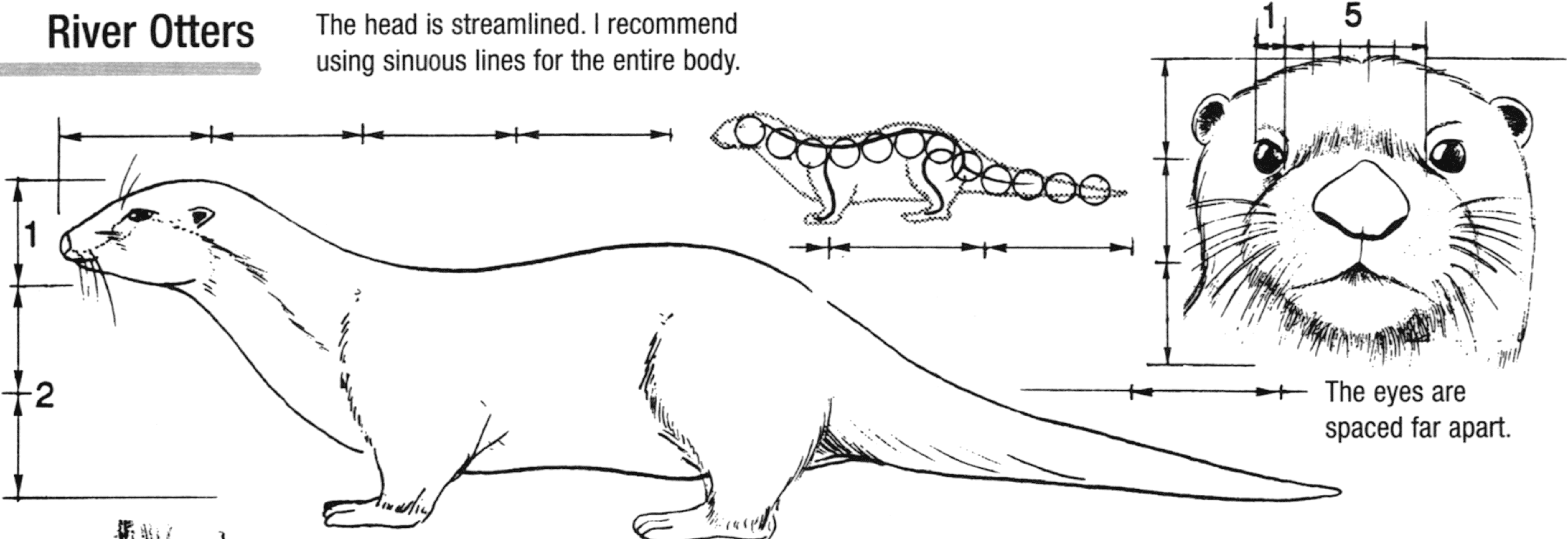
## Sloths



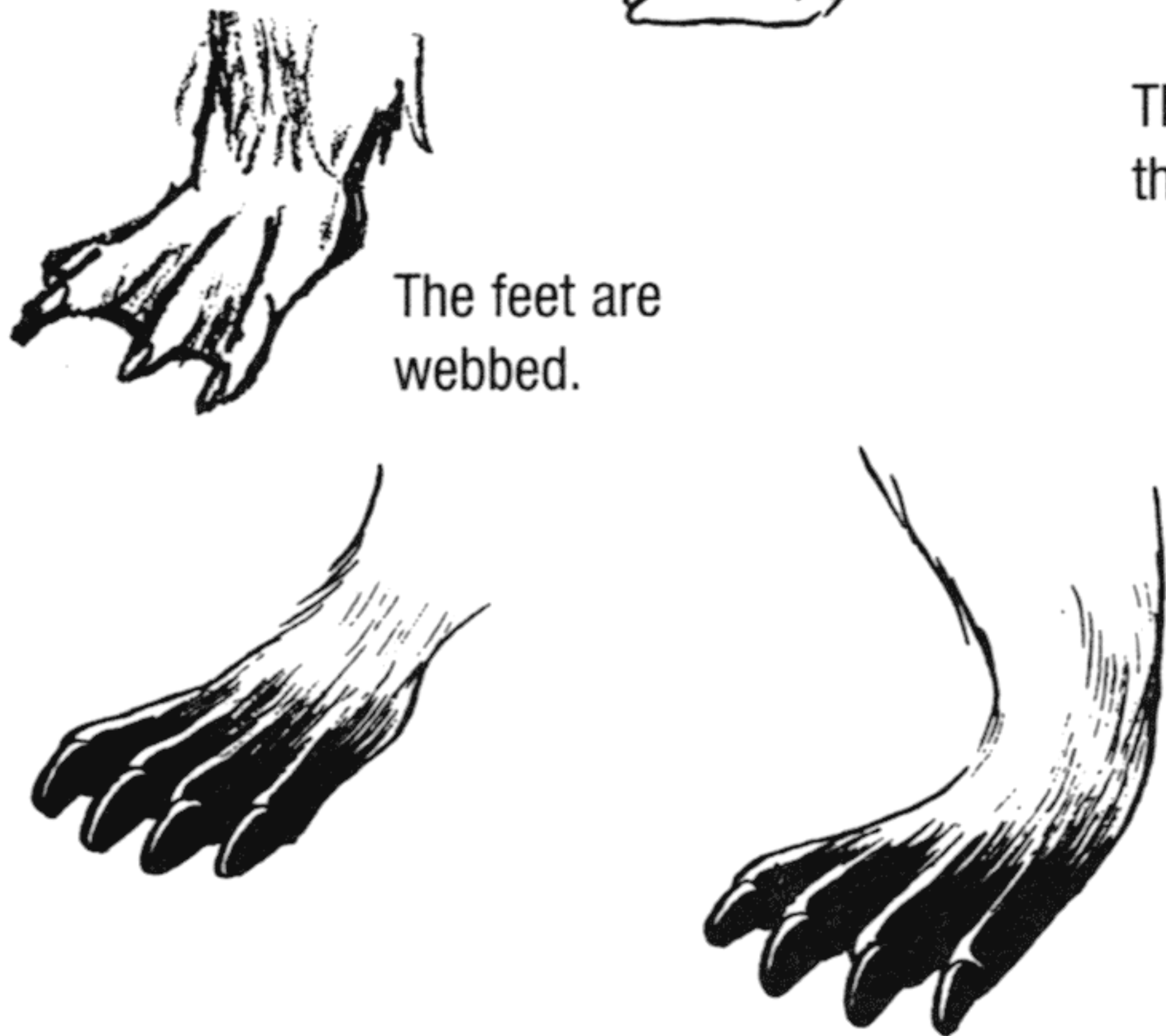


River Otters

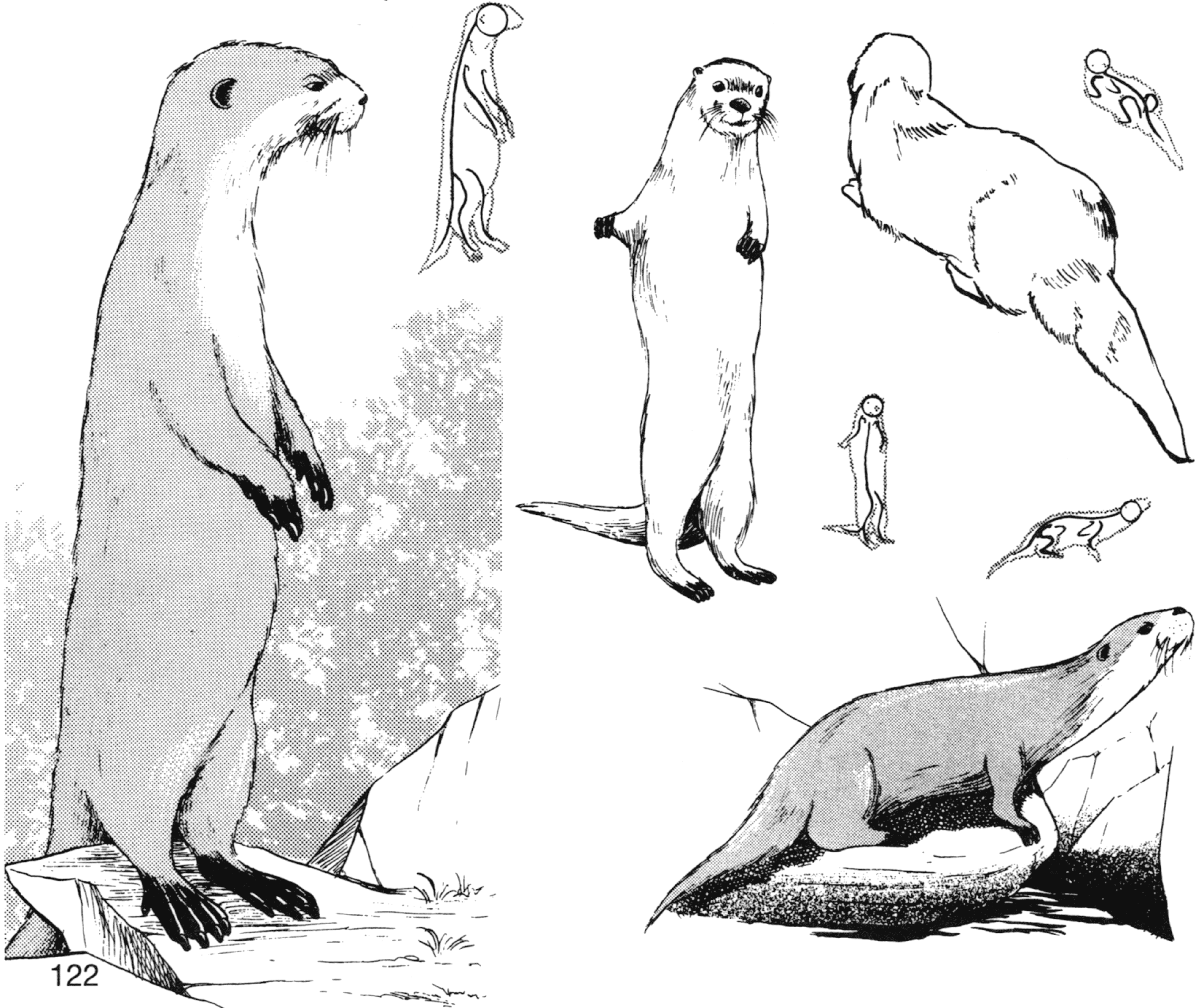
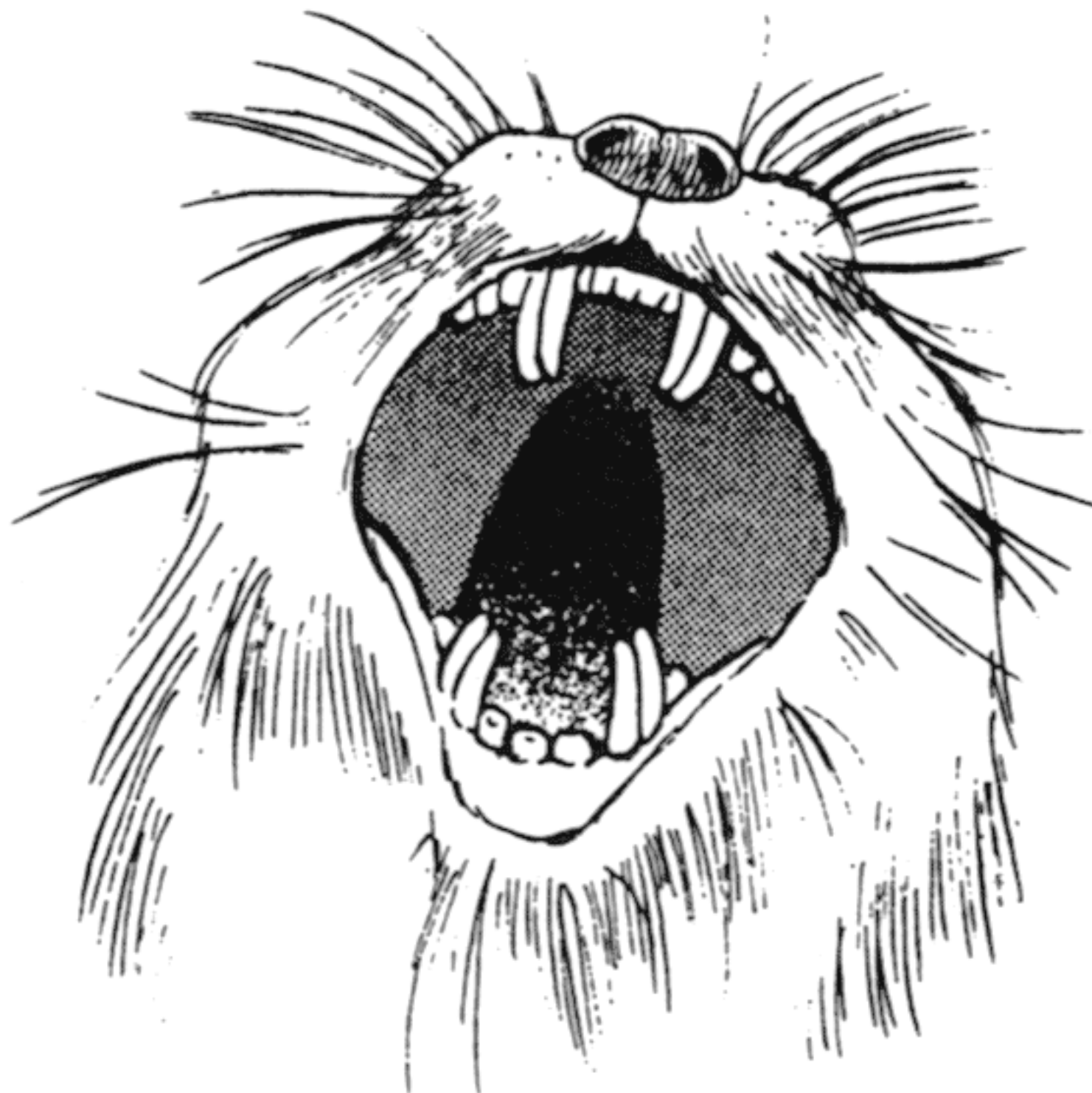
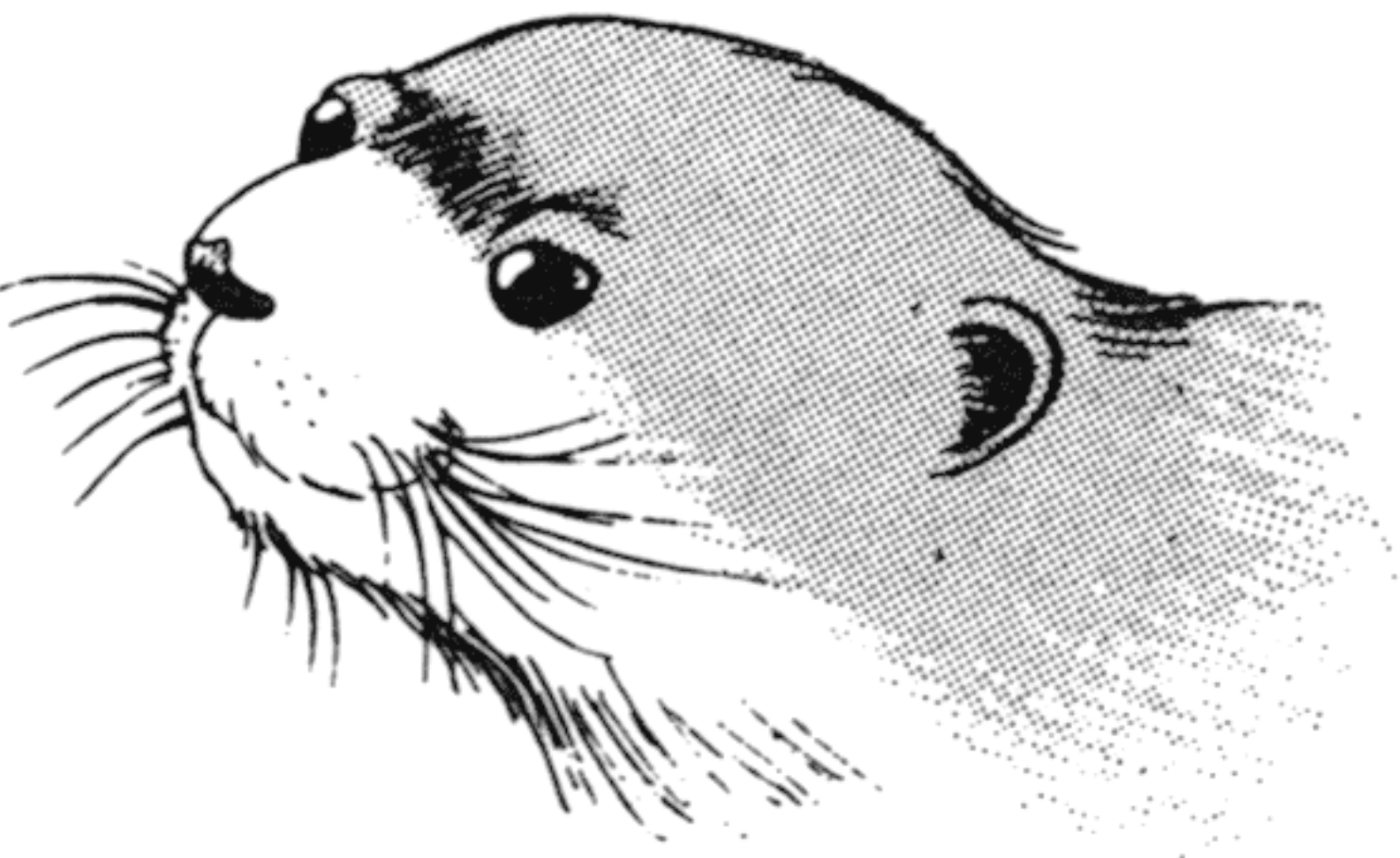
The head is streamlined. I recommend using sinuous lines for the entire body.



The feet are webbed.



The tail has a thick base, which is about the same girth as the head and neck.

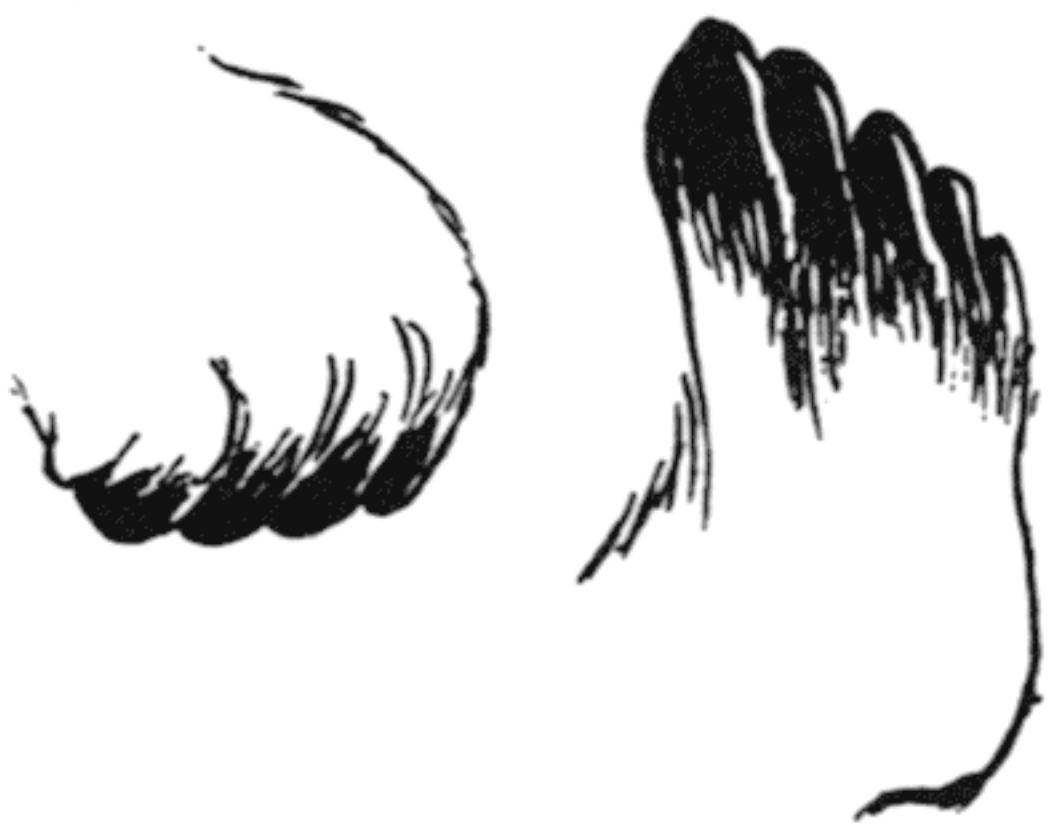




# Sea Otter



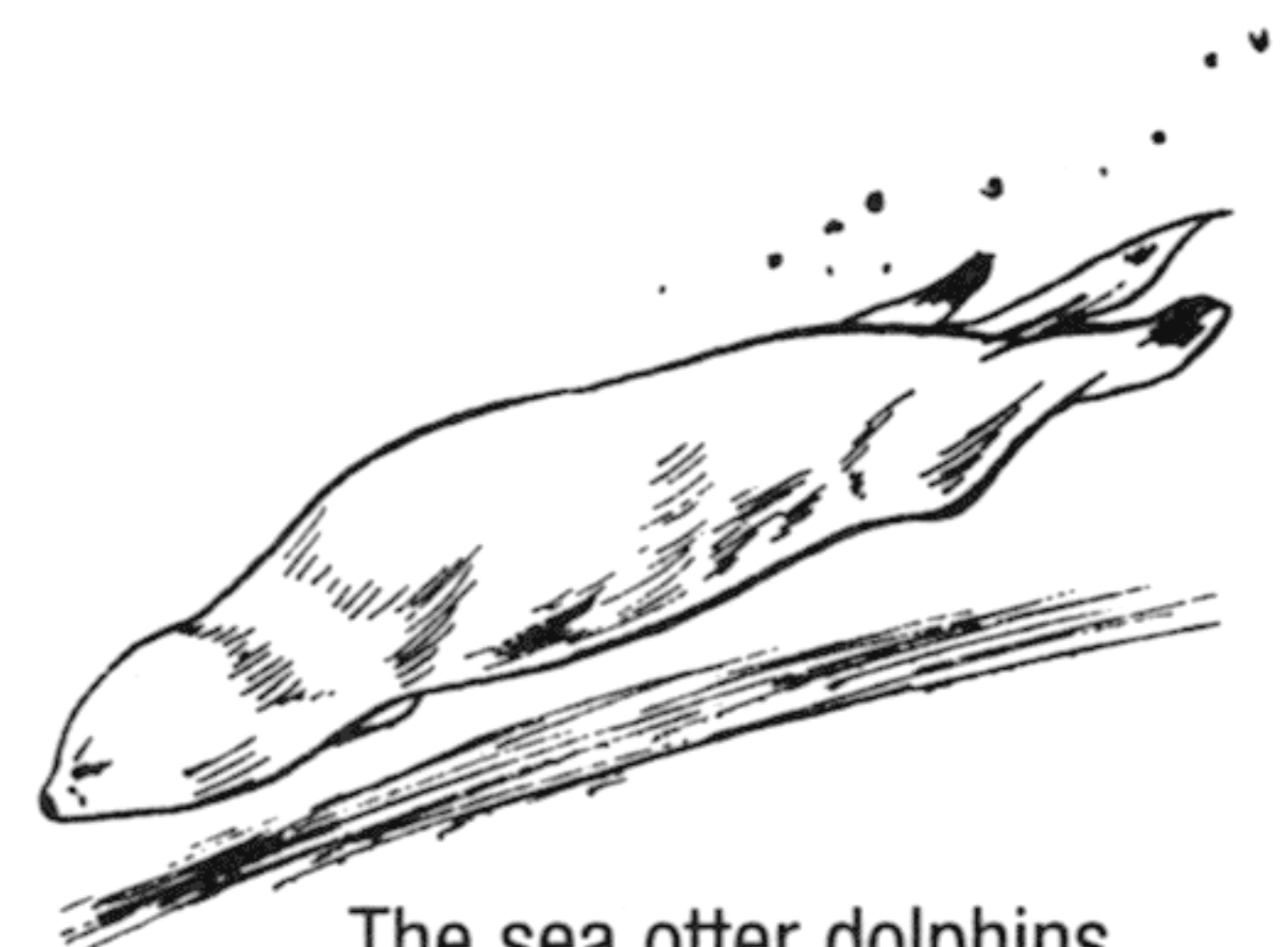
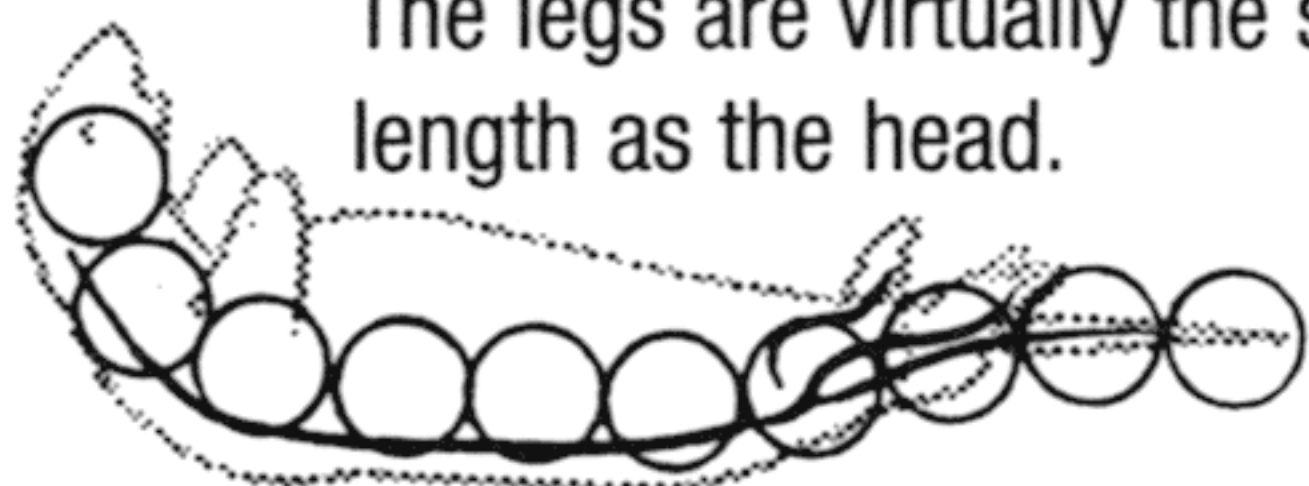
The paws' digits are barely noticeable. The front paws resemble flat mittens.



The sea otter's feet are webbed, and the legs are shaped like flippers.



The legs are virtually the same length as the head.



The sea otter dolphins through the water, without using its feet.



The flat tail is twice as long as the legs.



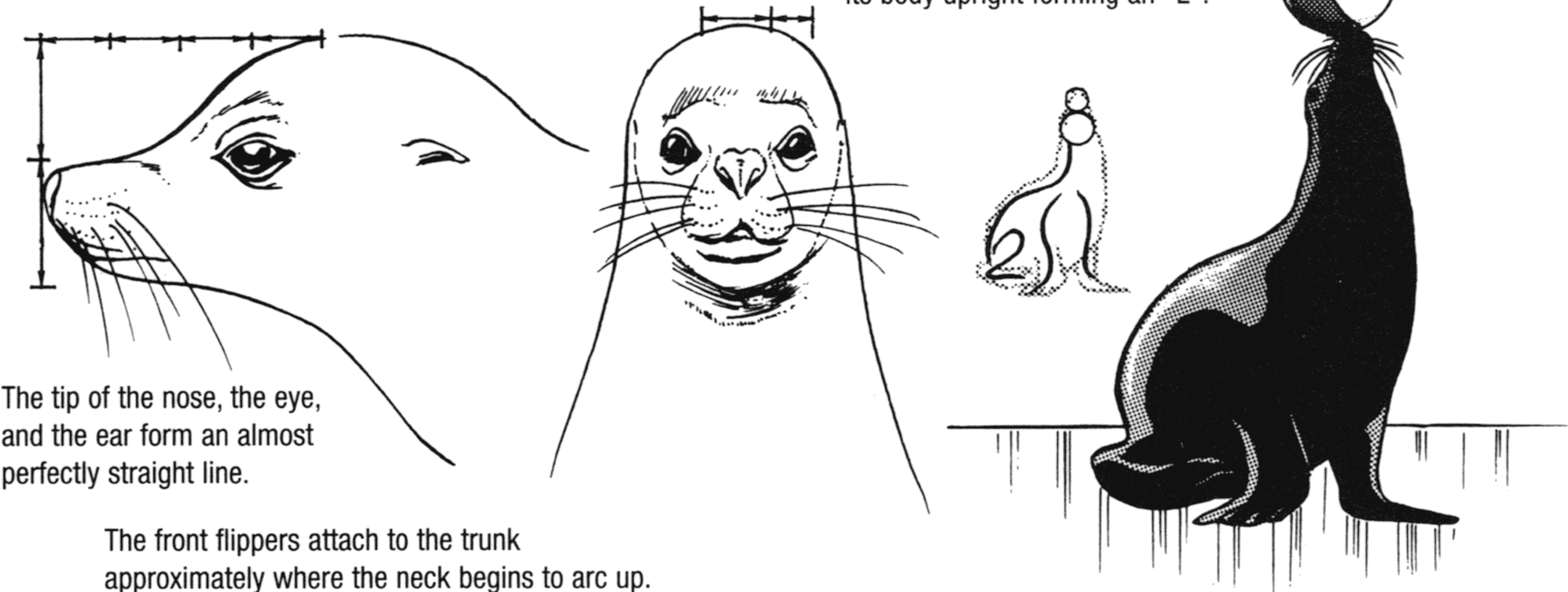
The sea otter sports a hairy coat.





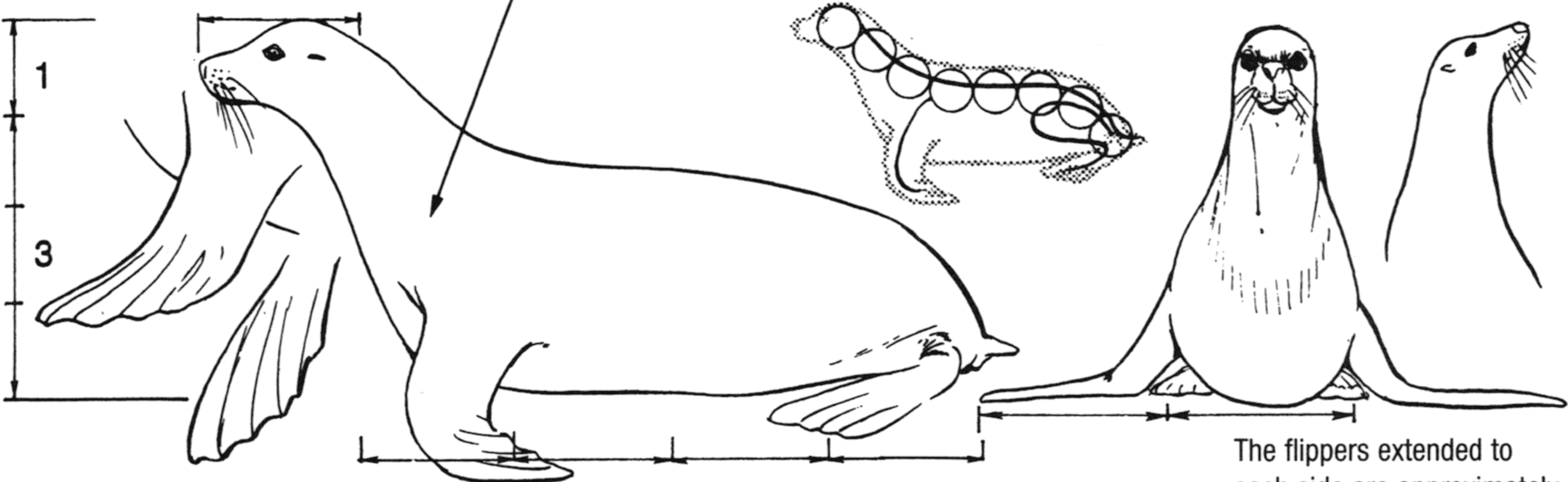
Sea Lions

The hind flippers fold forward, allowing the sea lion to straighten its body upright forming an "L".



The tip of the nose, the eye, and the ear form an almost perfectly straight line.

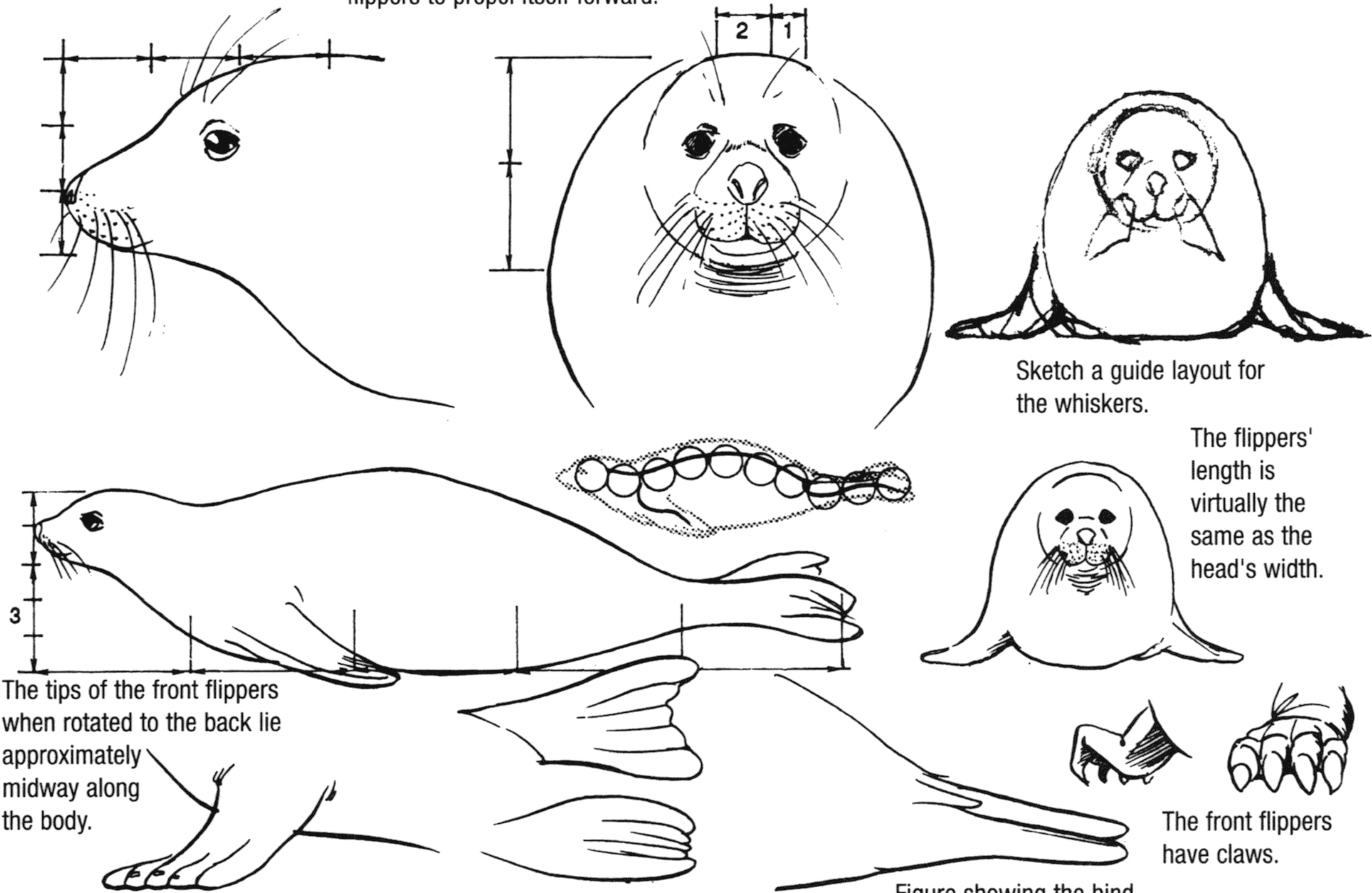
The front flippers attach to the trunk approximately where the neck begins to arc up.



The flippers extended to each side are approximately as long as the trunk's width.

Seals

The hind flippers do not fold forward, meaning that the seal is permanently in a reclining position and is only able to use its front flippers to propel itself forward.



Sketch a guide layout for the whiskers.

The flippers' length is virtually the same as the head's width.

The tips of the front flippers when rotated to the back lie approximately midway along the body.

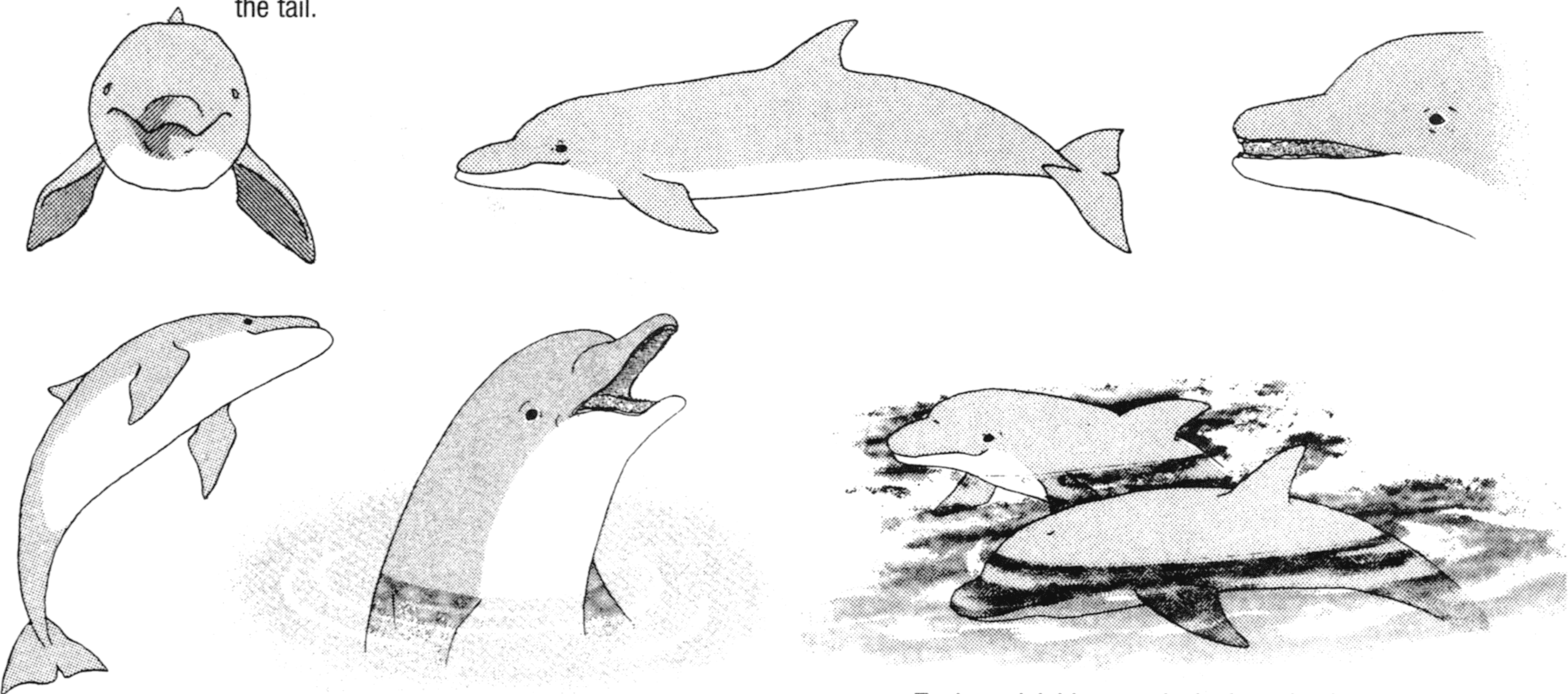
The front flippers have claws.

Figure showing the hind flippers brought together



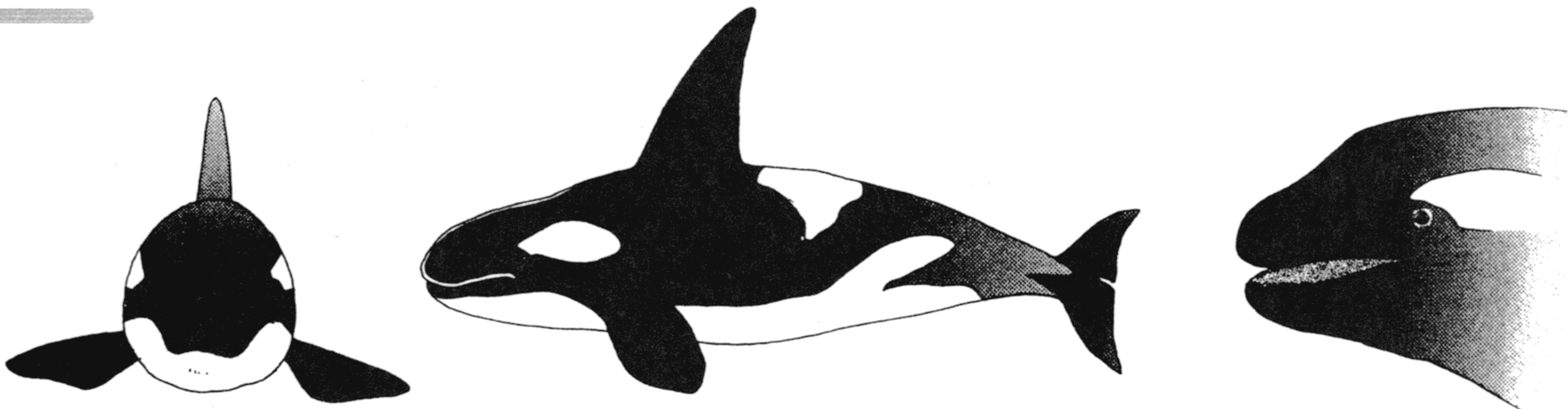
Dolphins

The key point to the dolphin is the arc extending from the dorsal fin to the tail.



To draw dolphins convincingly maintain a visual image of a bow when drawing the body.

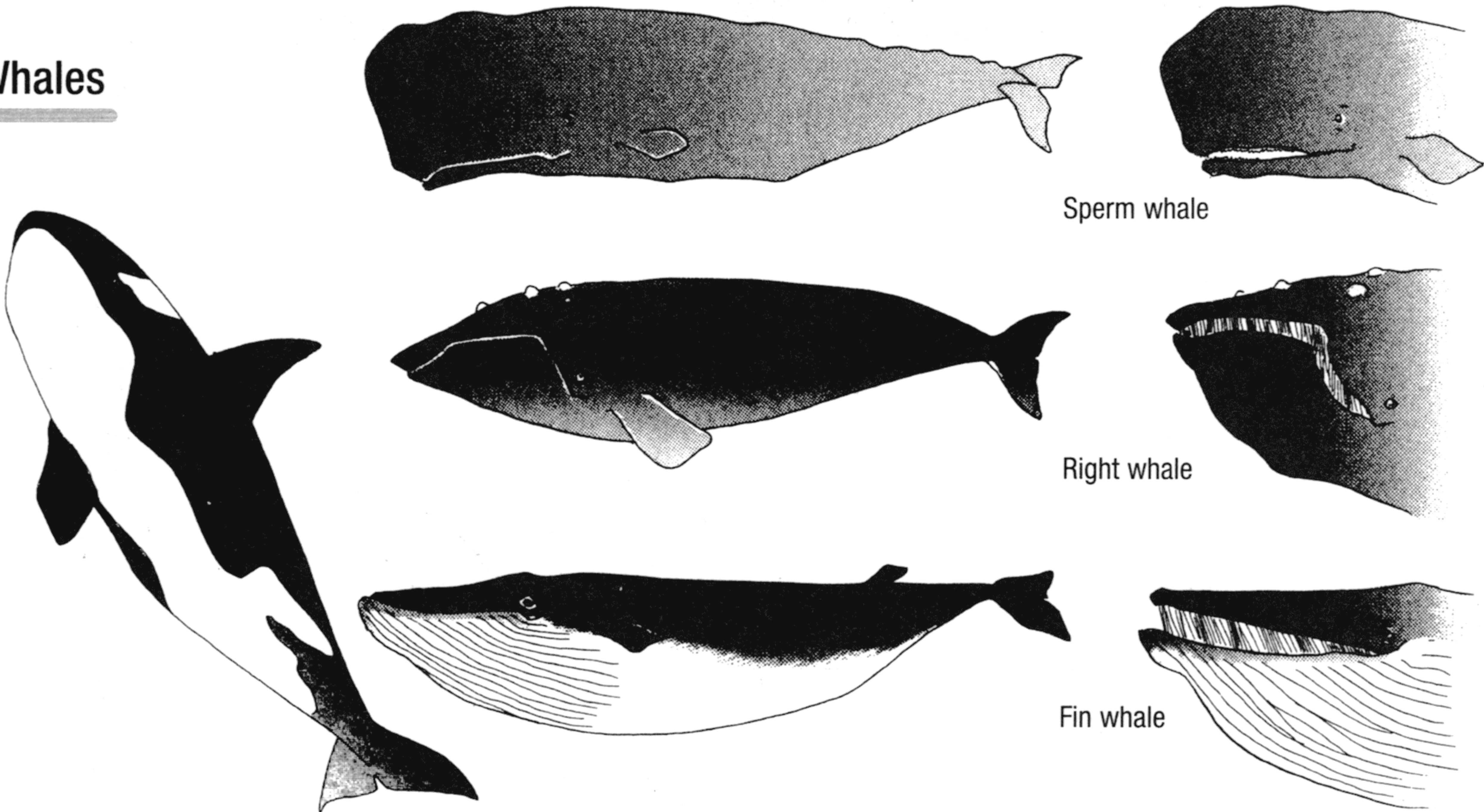
Orcas



The orca has a chubby, streamlined body, which is equal in height to its tall dorsal fin.

Position the pectoral fins lower than the eyes and the tailfin above the eyes.

Whales



Sperm whale

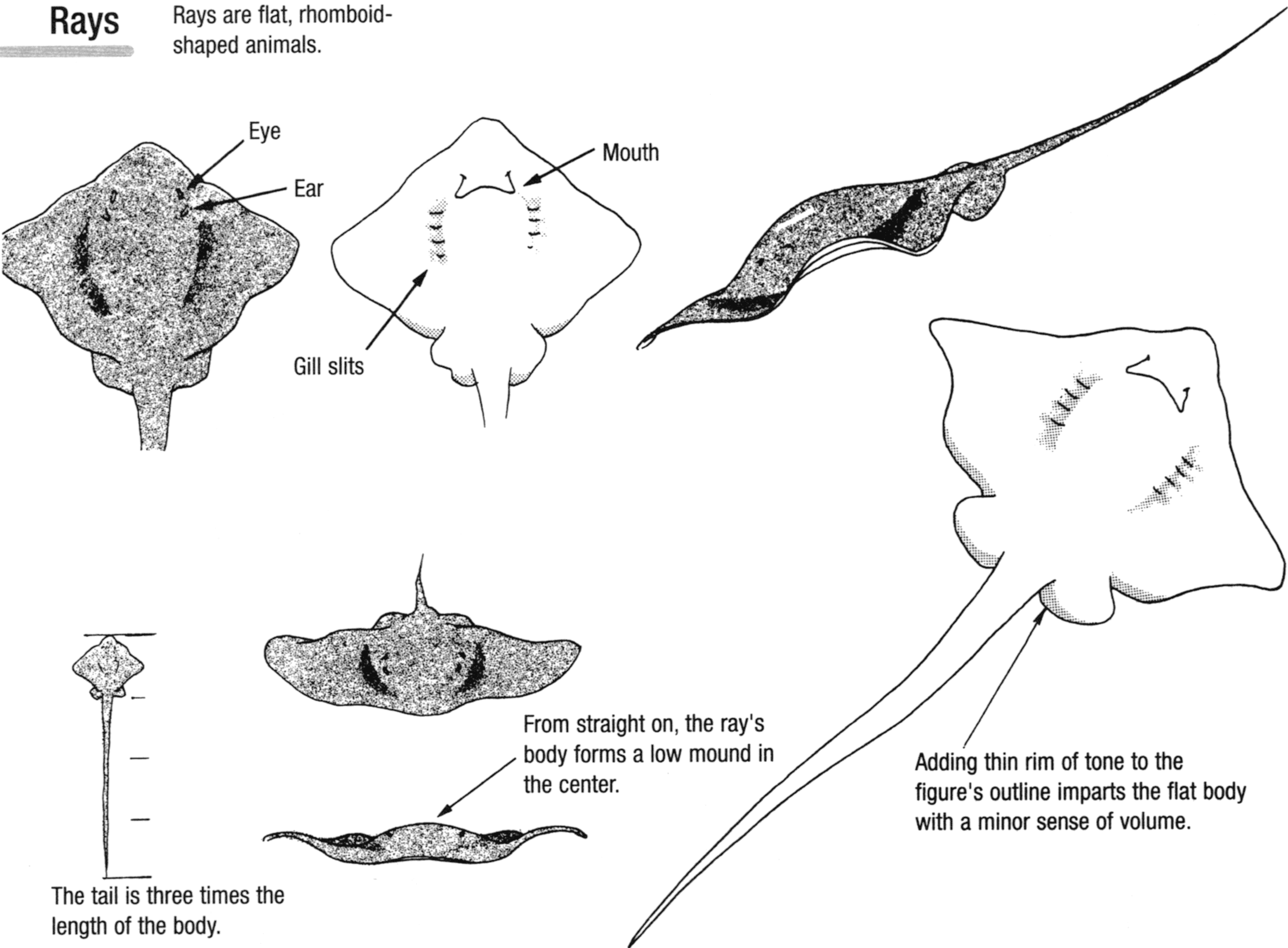
Right whale

Fin whale



Rays

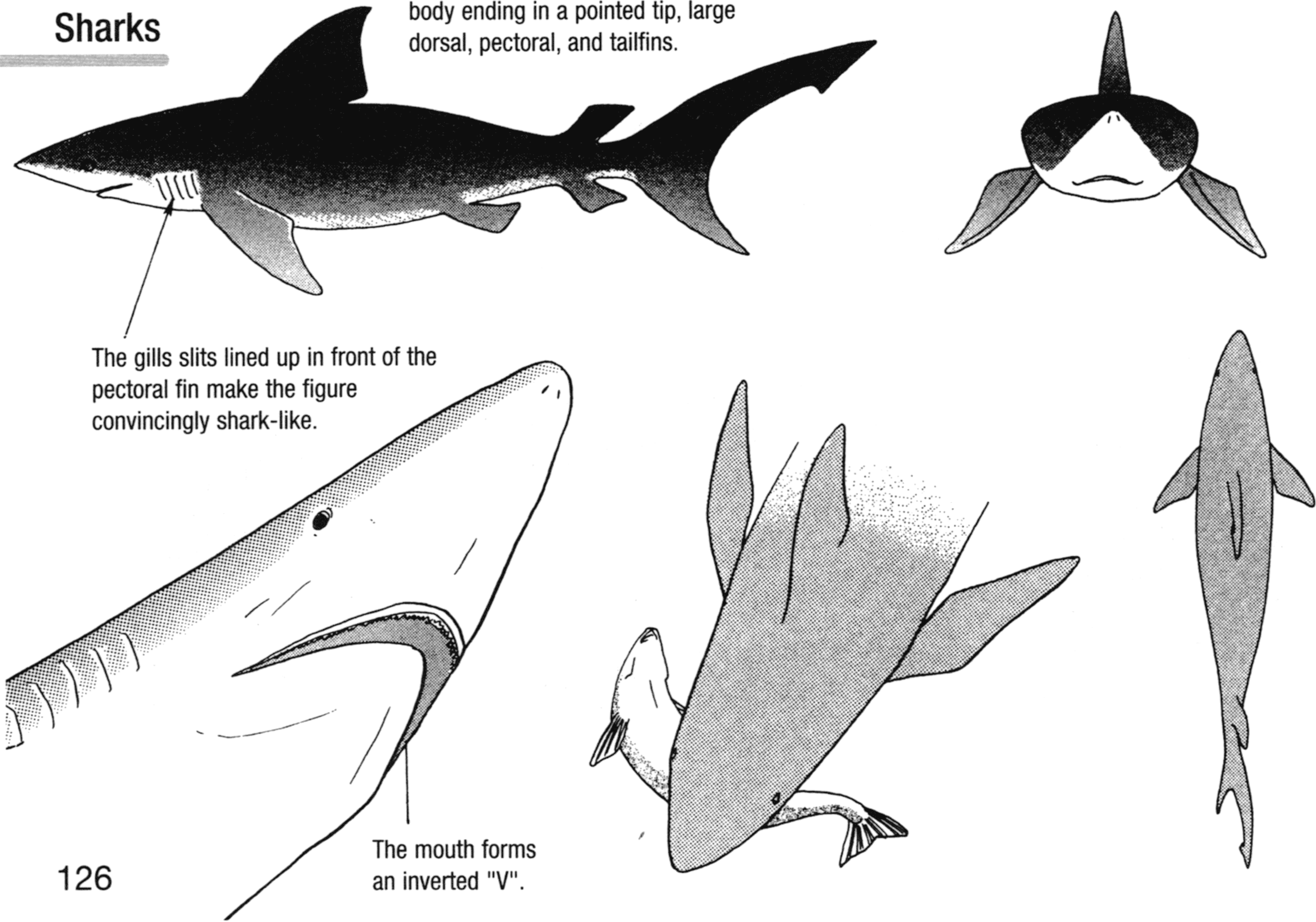
Rays are flat, rhomboid-shaped animals.



Sharks

Portray the shark with a streamlined body ending in a pointed tip, large dorsal, pectoral, and tailfins.

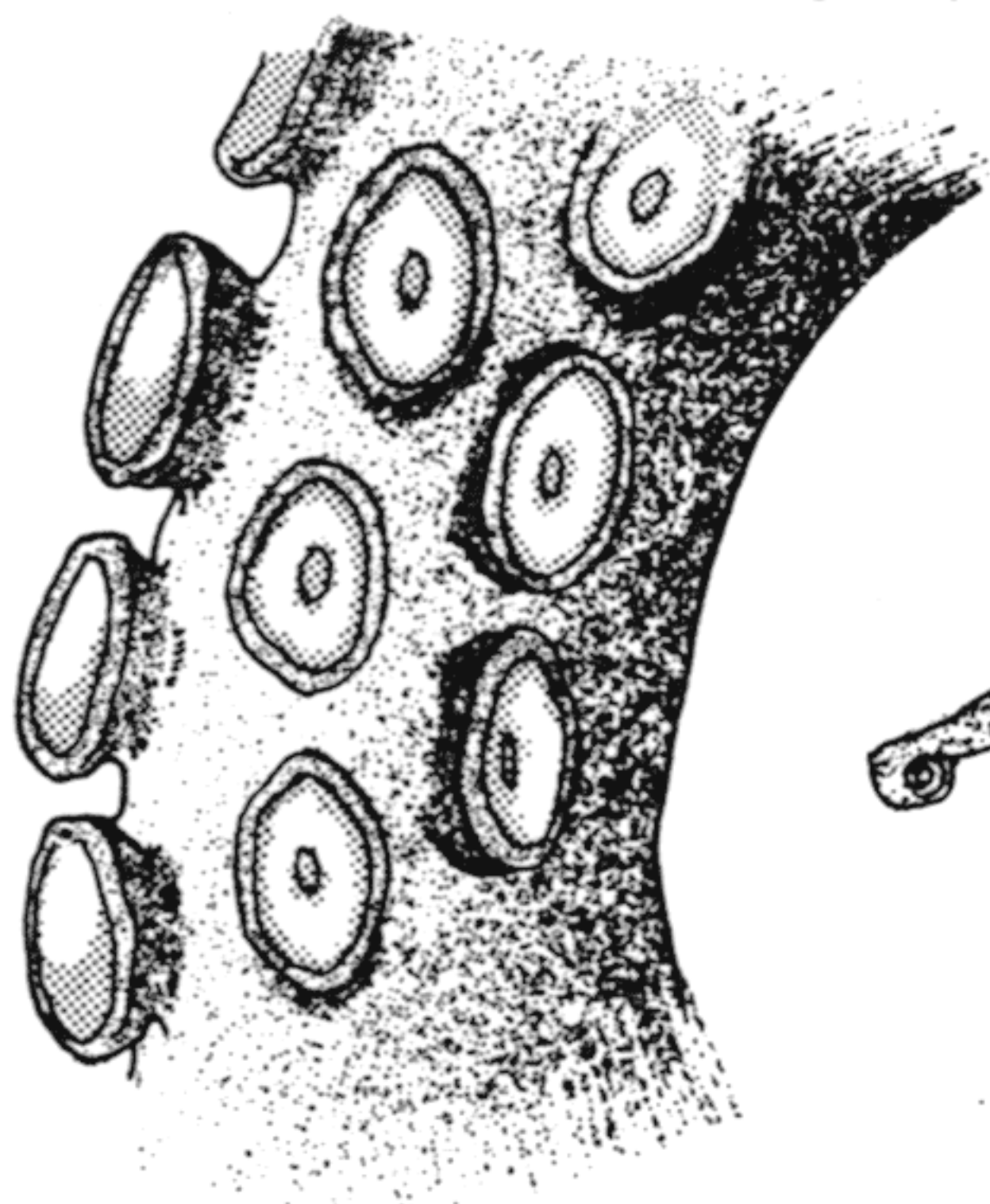
The dorsal and pectoral fins are proportioned to form a triangle.



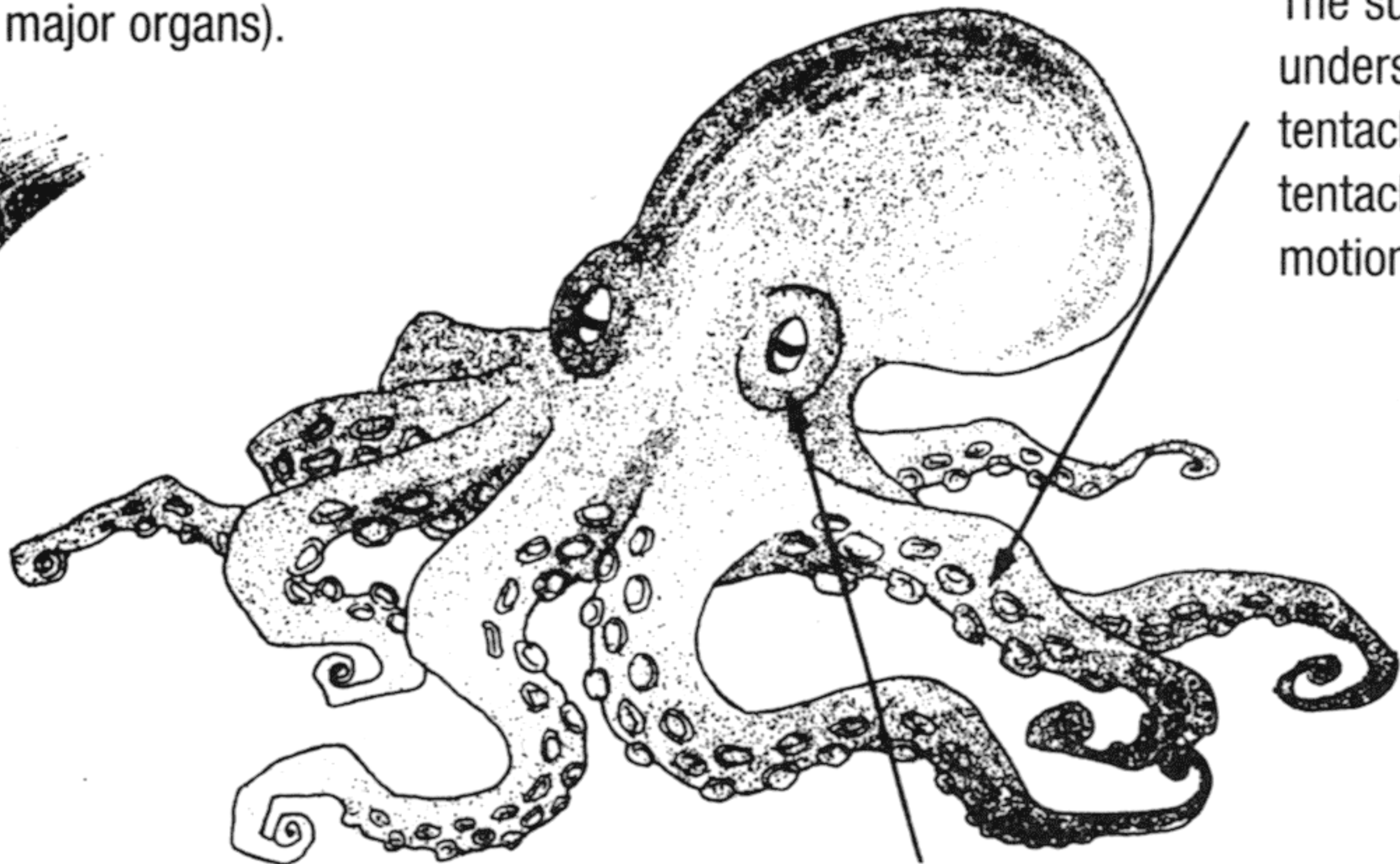


Octopuses

The octopus has a head-to-body ratio of approximately 1:2 with the tentacles somewhat longer than the mantle (large, bulbous, muscular feature resembling a head and located above the actual head, housing major organs).

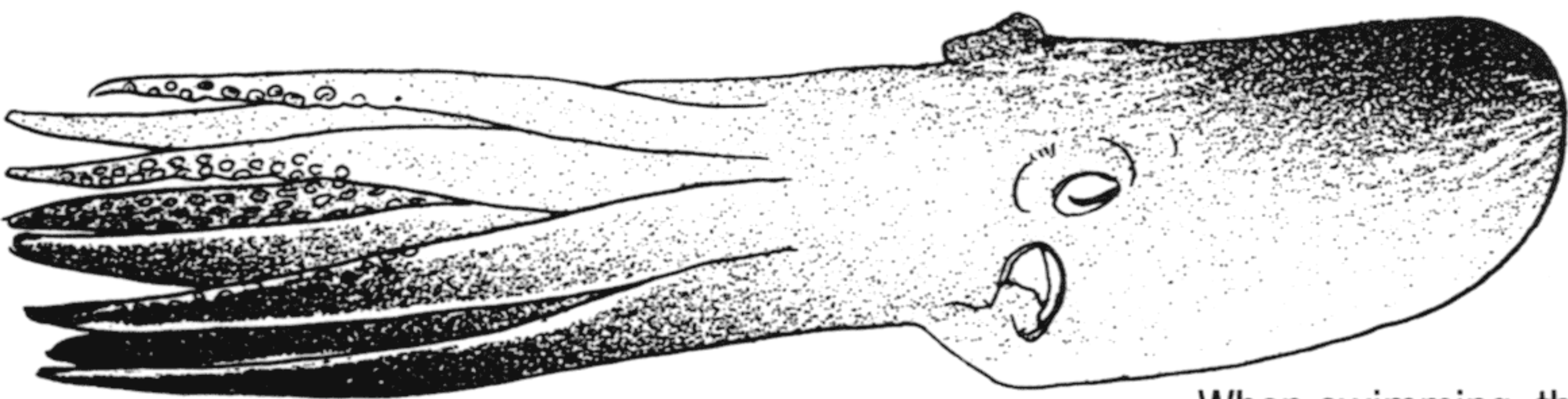
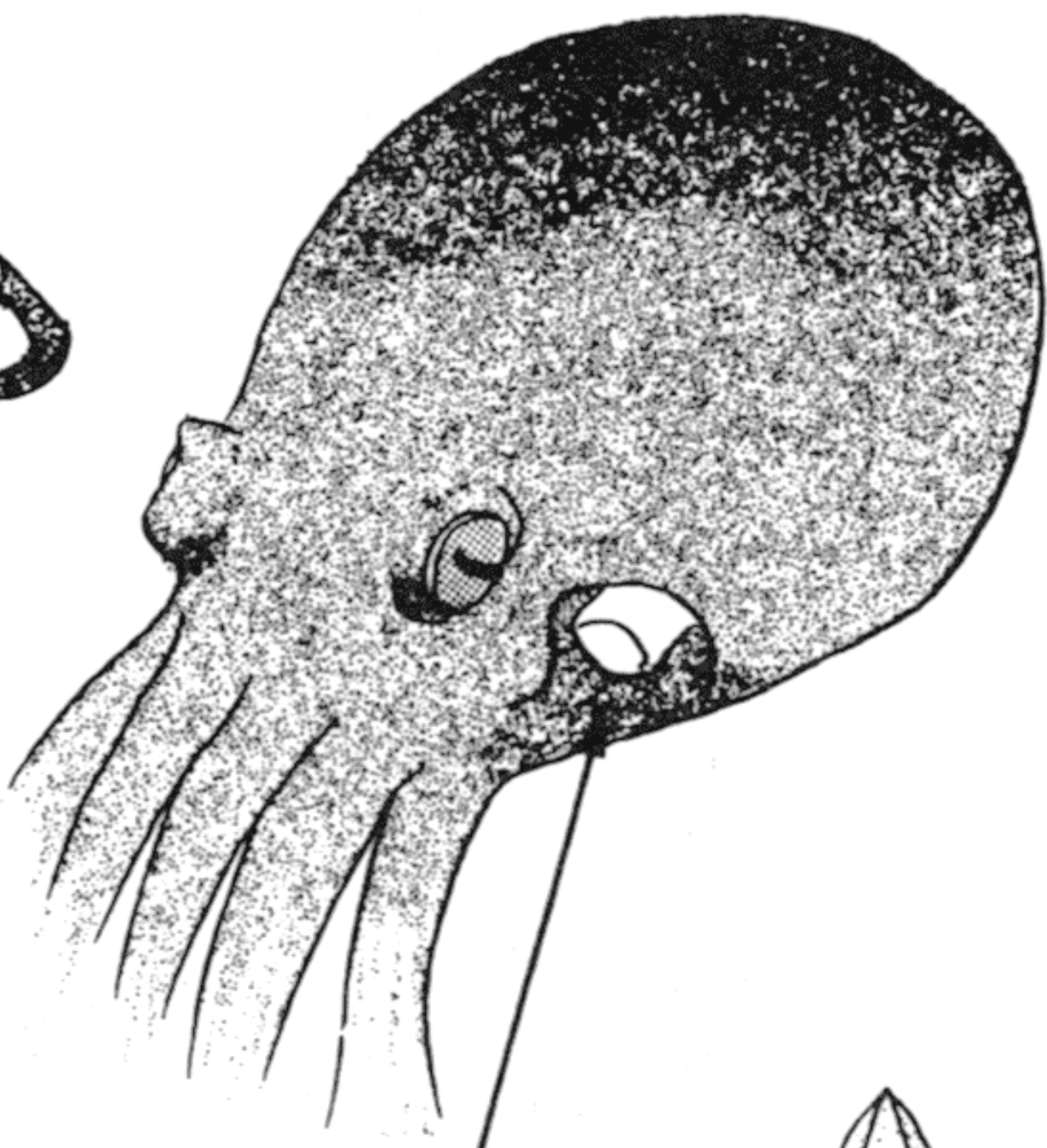


The suction cups are regularly spaced in staggered rows.



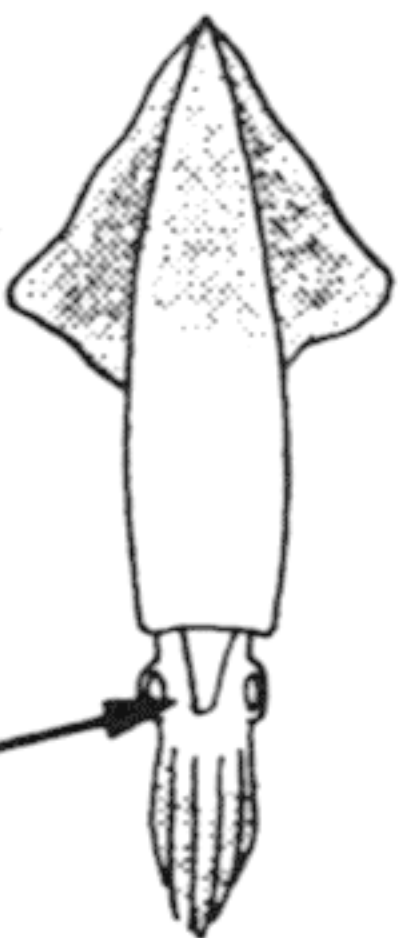
The pupil is horizontally oblong, making the octopus look sleepy.

The suction cups are aligned along the underside of the tentacles. Drawing the tentacles toward the outside portrays the tentacles' characteristic wiggly, wriggly motion.



When swimming, the octopus stretches itself, elongating the mantle.

The siphon is not a mouth for food, nor is it located between the eyes. The octopus squirts water through the siphon to allow for jet propulsion.

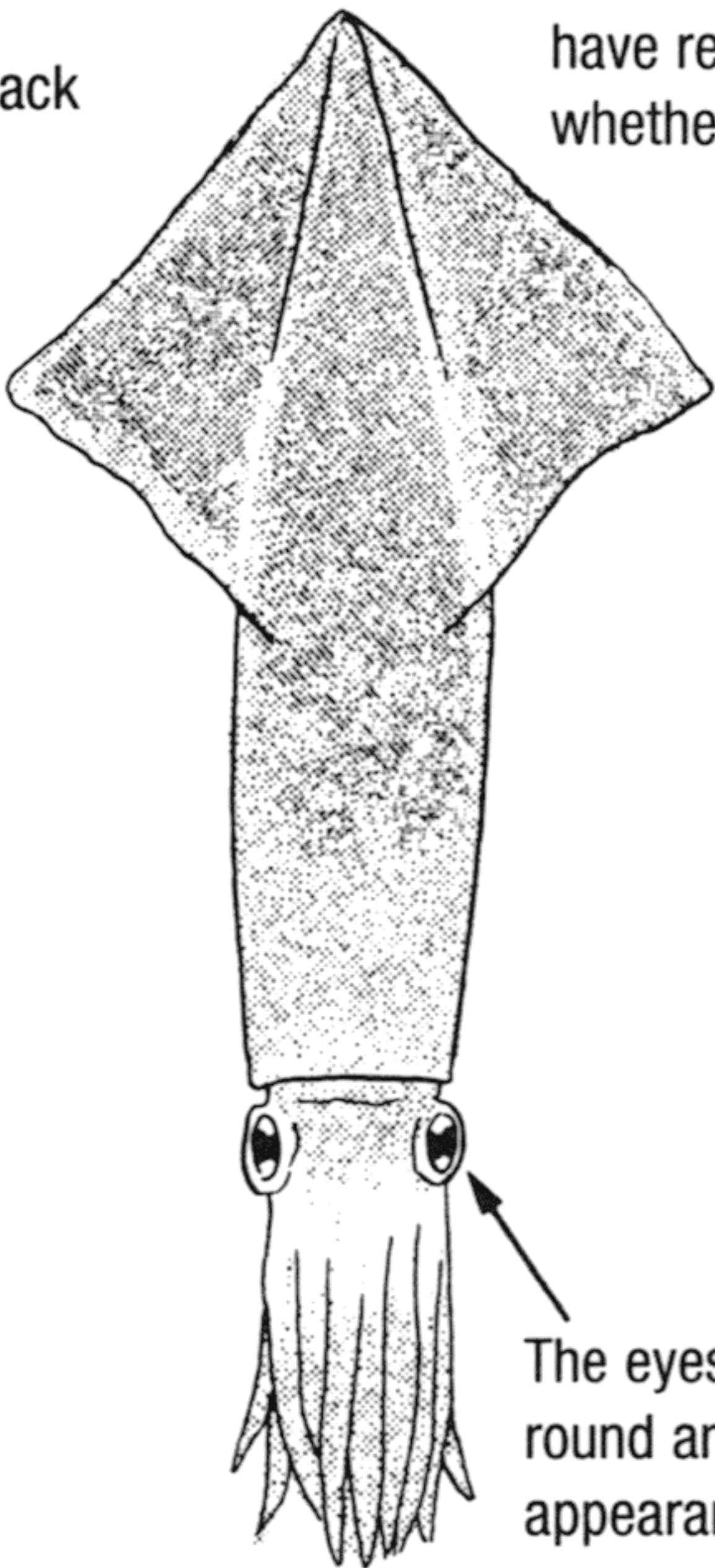


Siphon

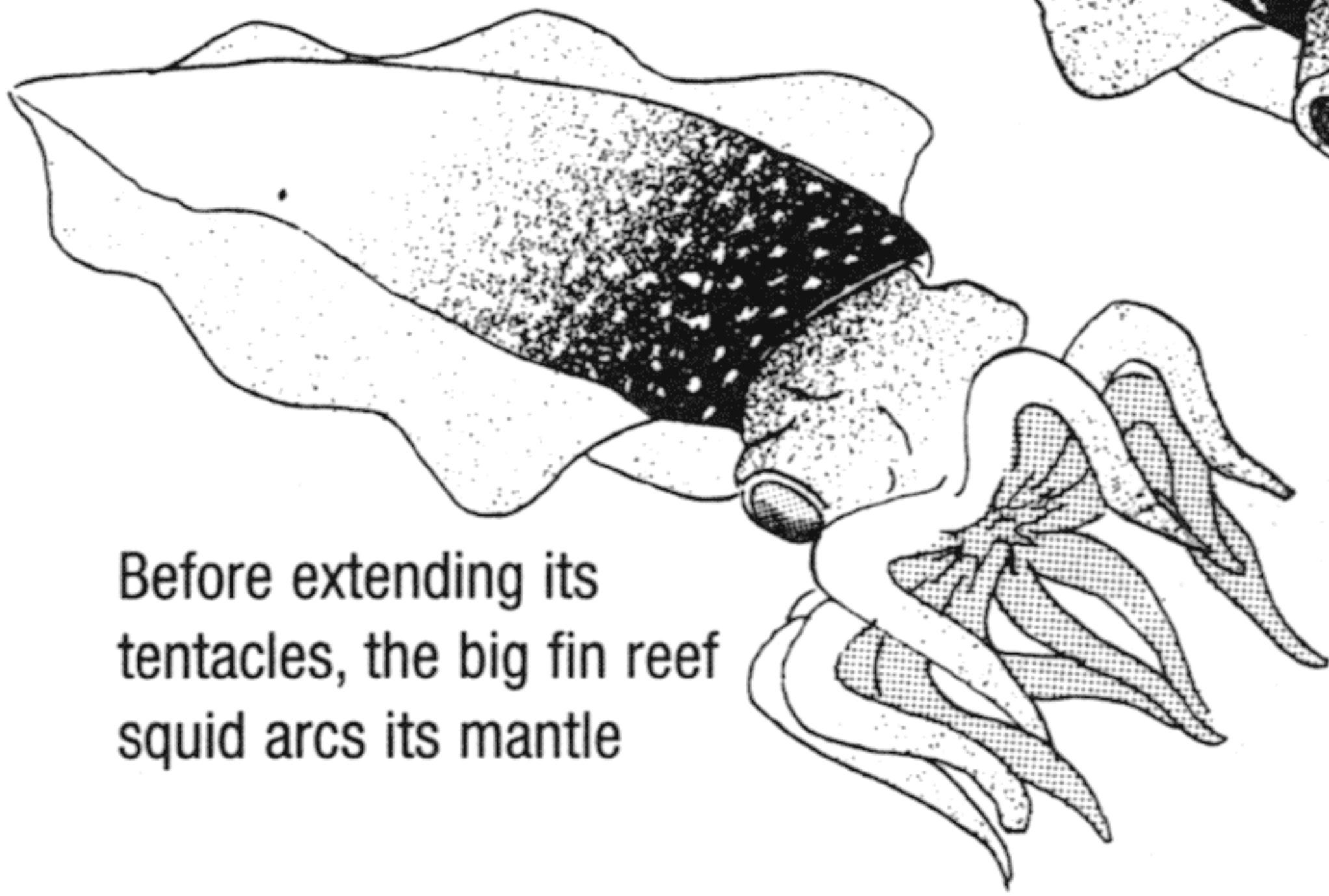
Squid

Front

Back



The *yariika's* ("spear squid"; *Loligo bleekeri*) cylindrical body appears to have relatively the same thickness whether viewed from the front or side.



Before extending its tentacles, the big fin reef squid arcs its mantle

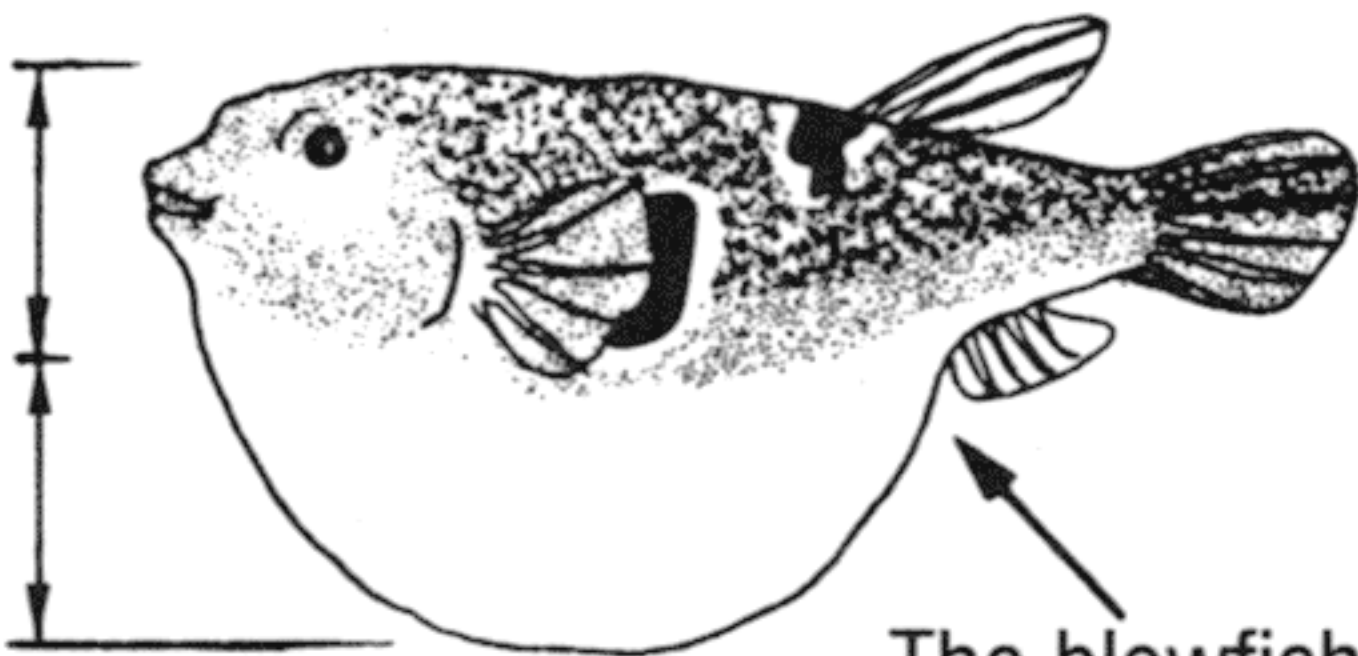
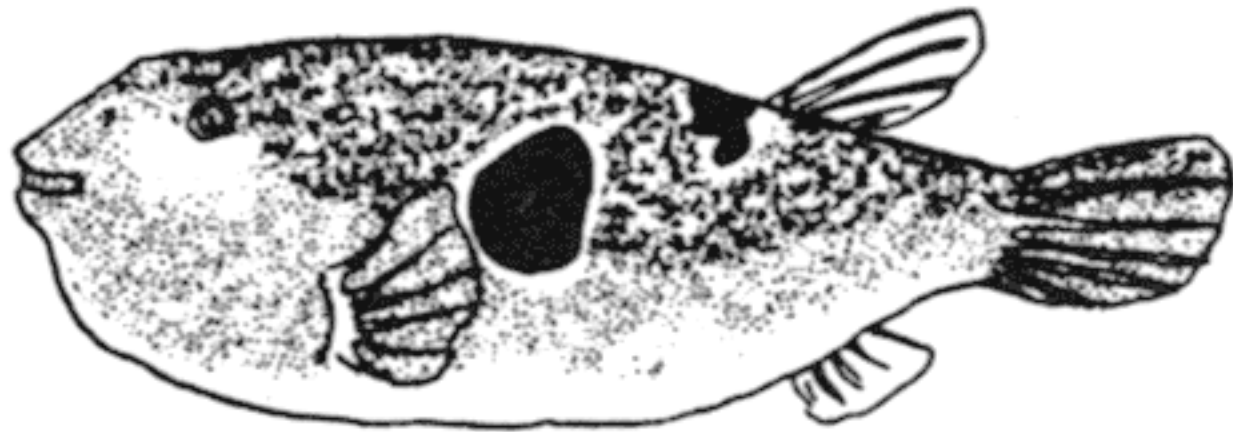
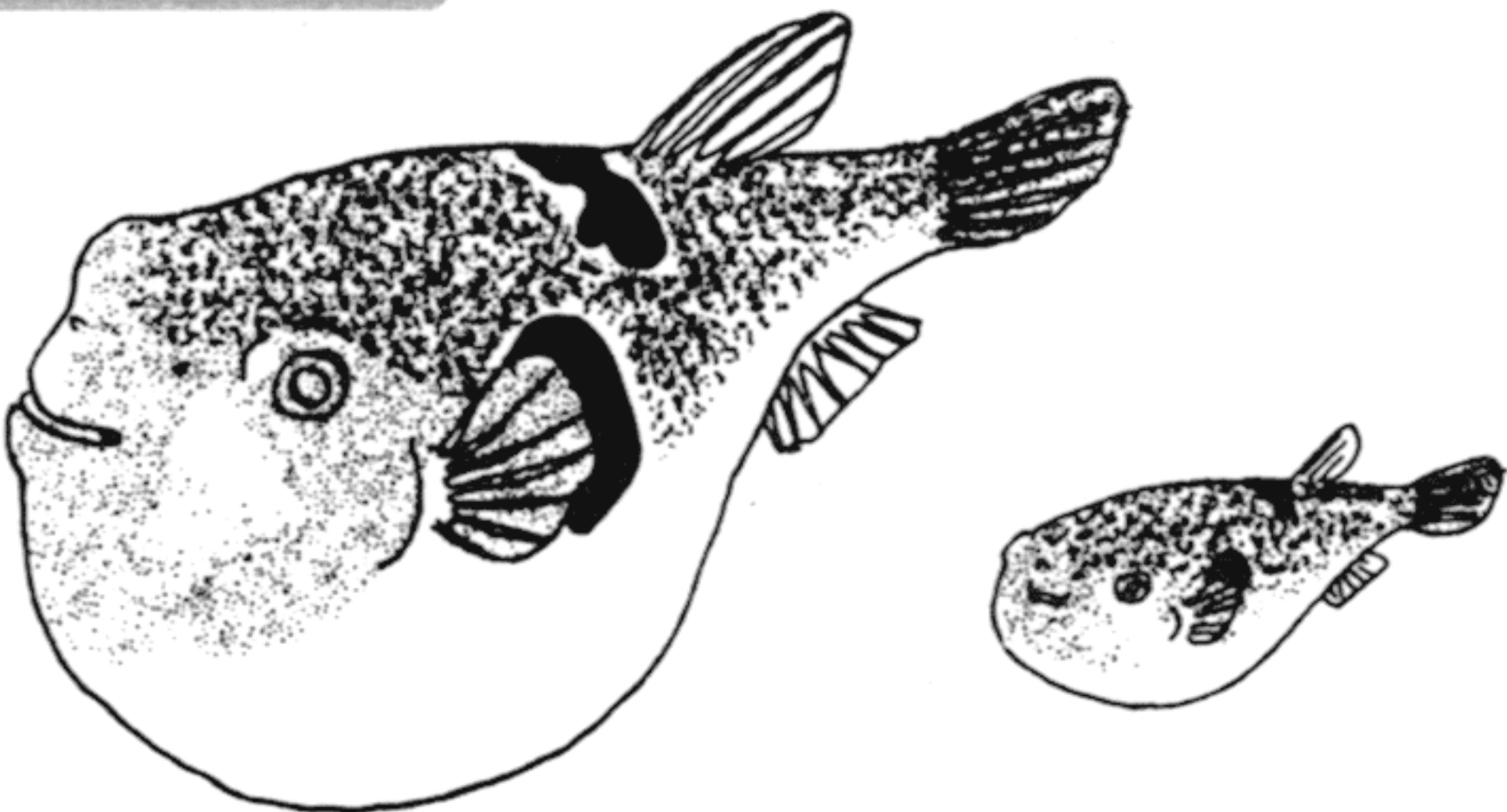
Big fin reef squid (*Sepioteuthis lessoniana*) shown swimming.

The entire body becomes ramrod stiff when the tentacles are extended.

The eyes are perfectly round and have an alert appearance.

Blowfish

The blowfish inflates to twice its normal size.



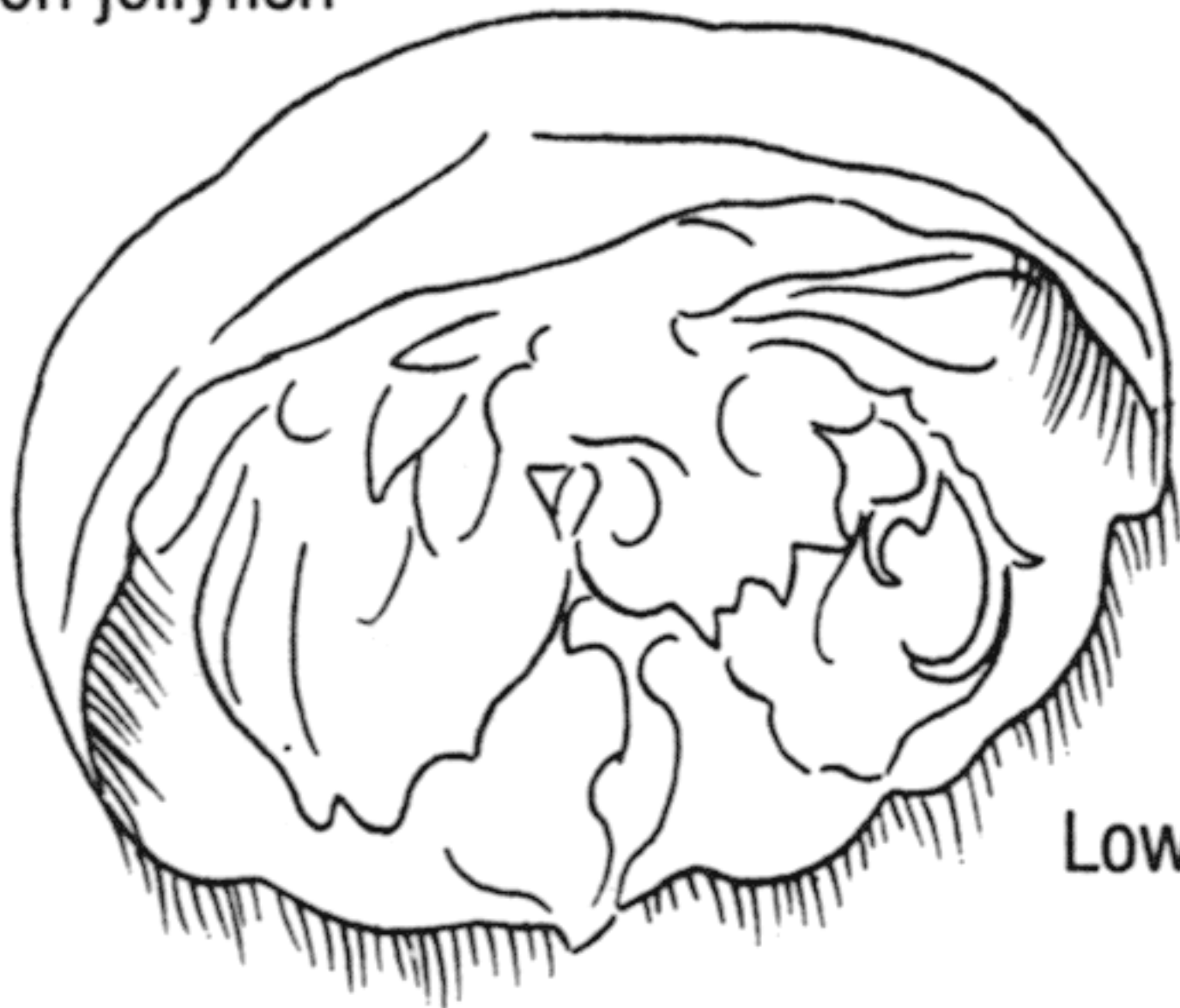
The blowfish's body expands up to the pelvic fin.



Jellyfish

The jellyfish's movements and the angle from which it is viewed greatly affect whether it appears flat to the eye or a complicated three-dimensional creature.

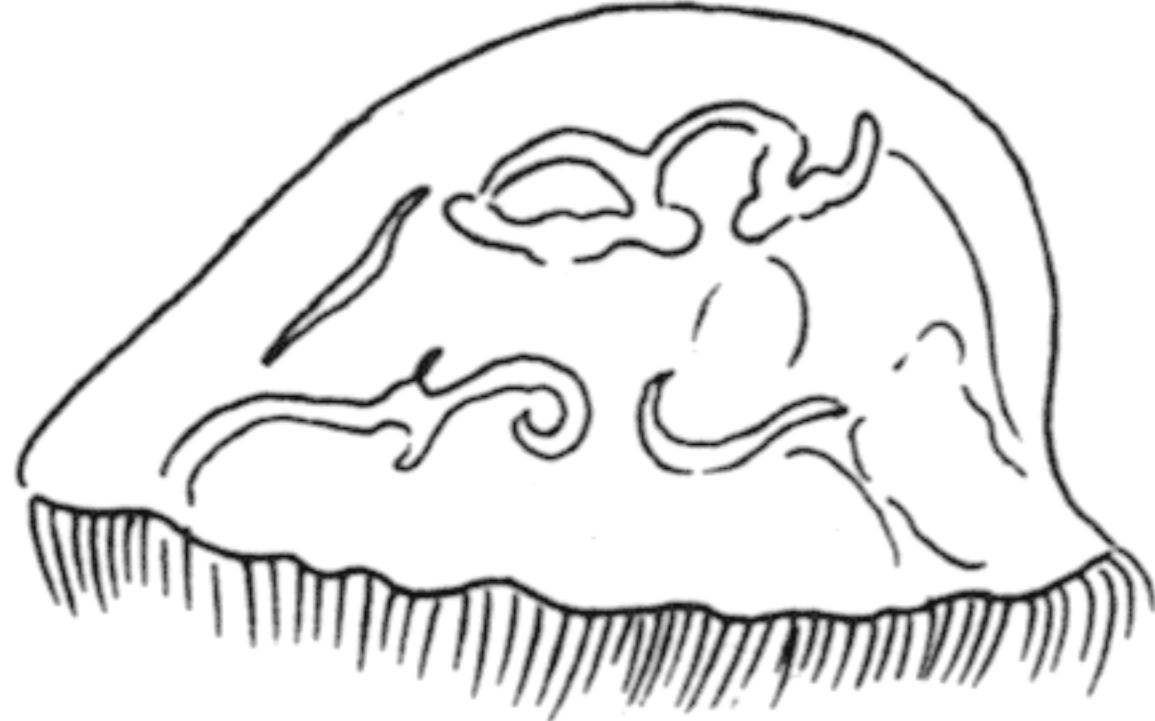
Moon jellyfish



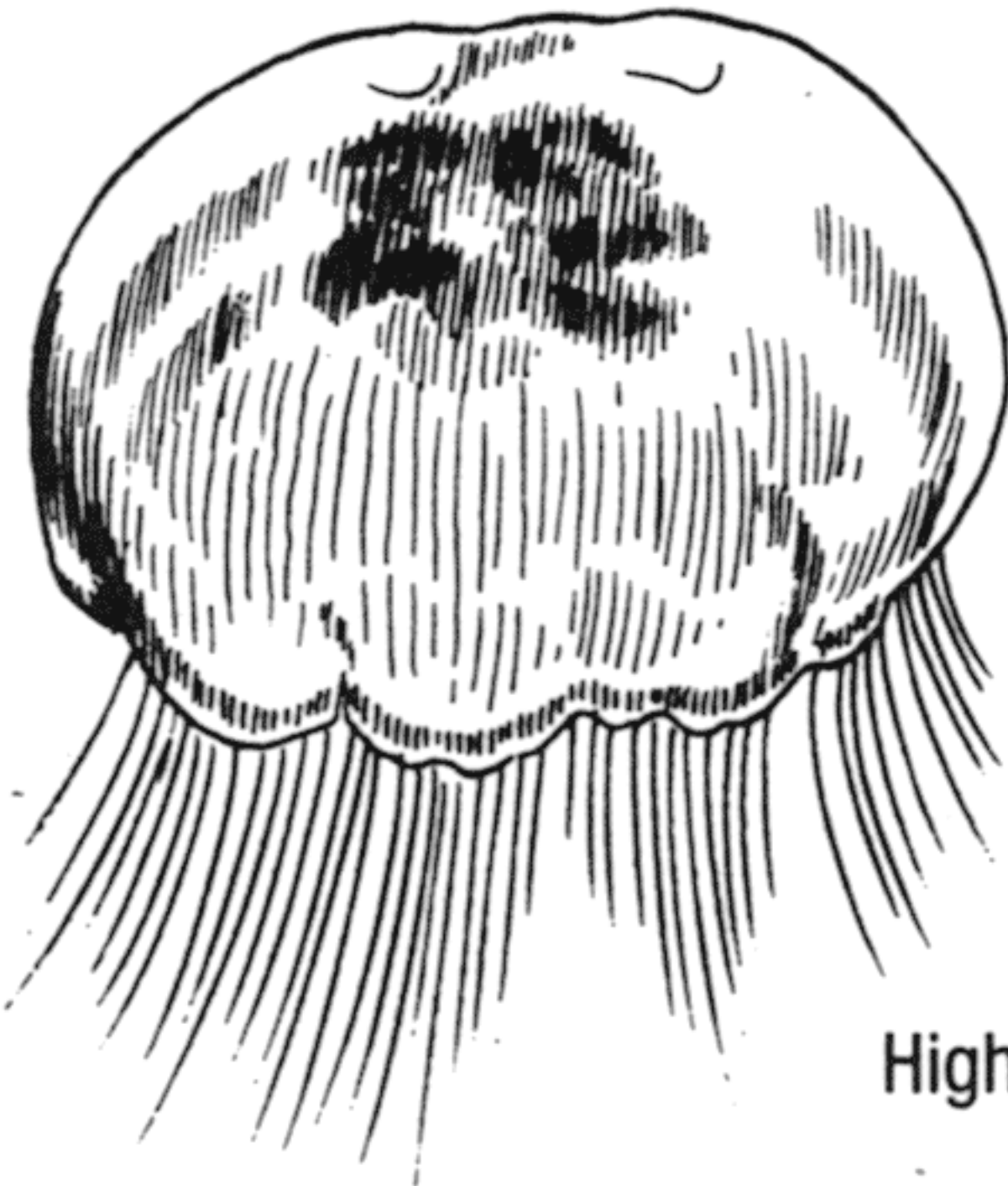
Low angle



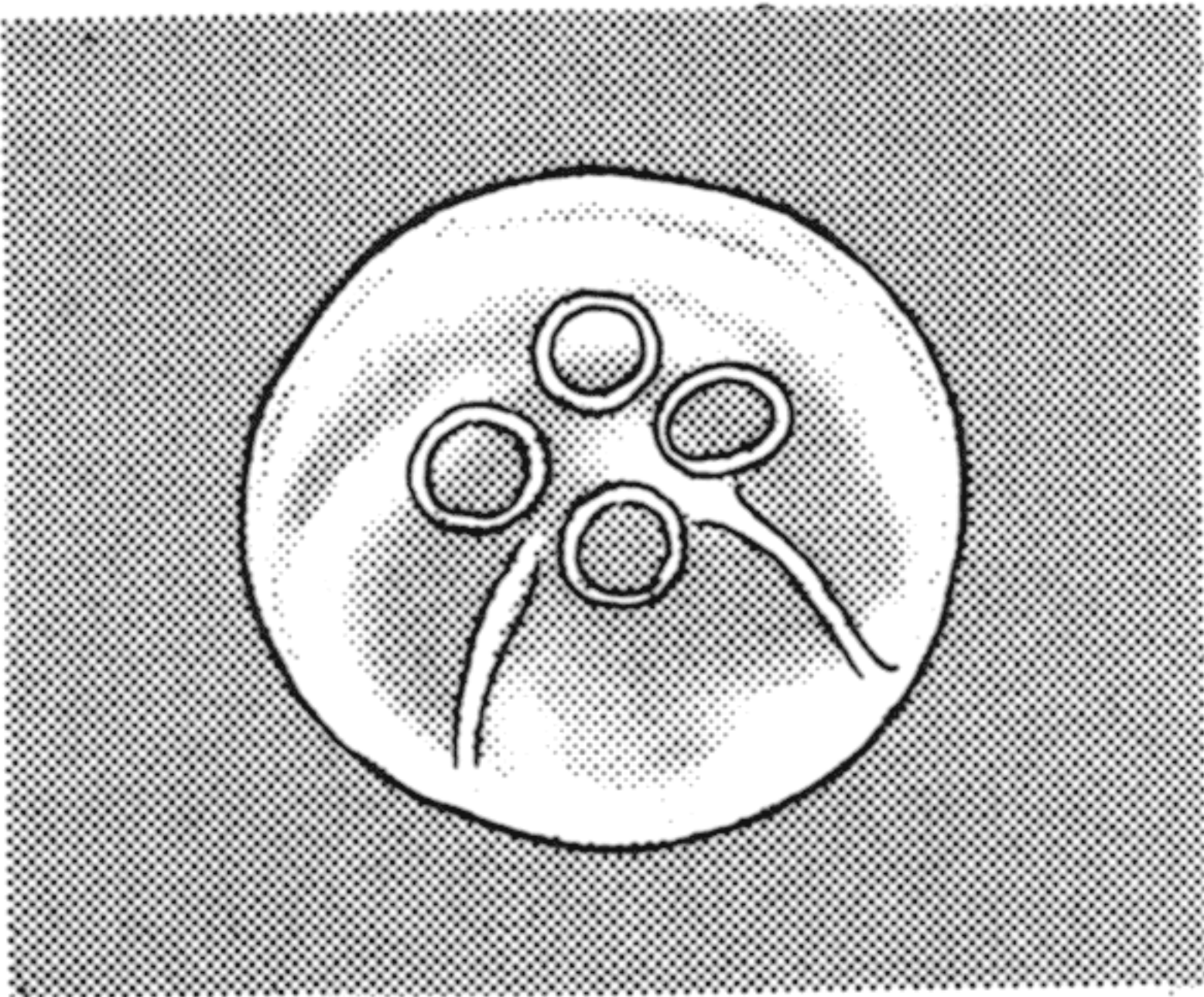
Low angle



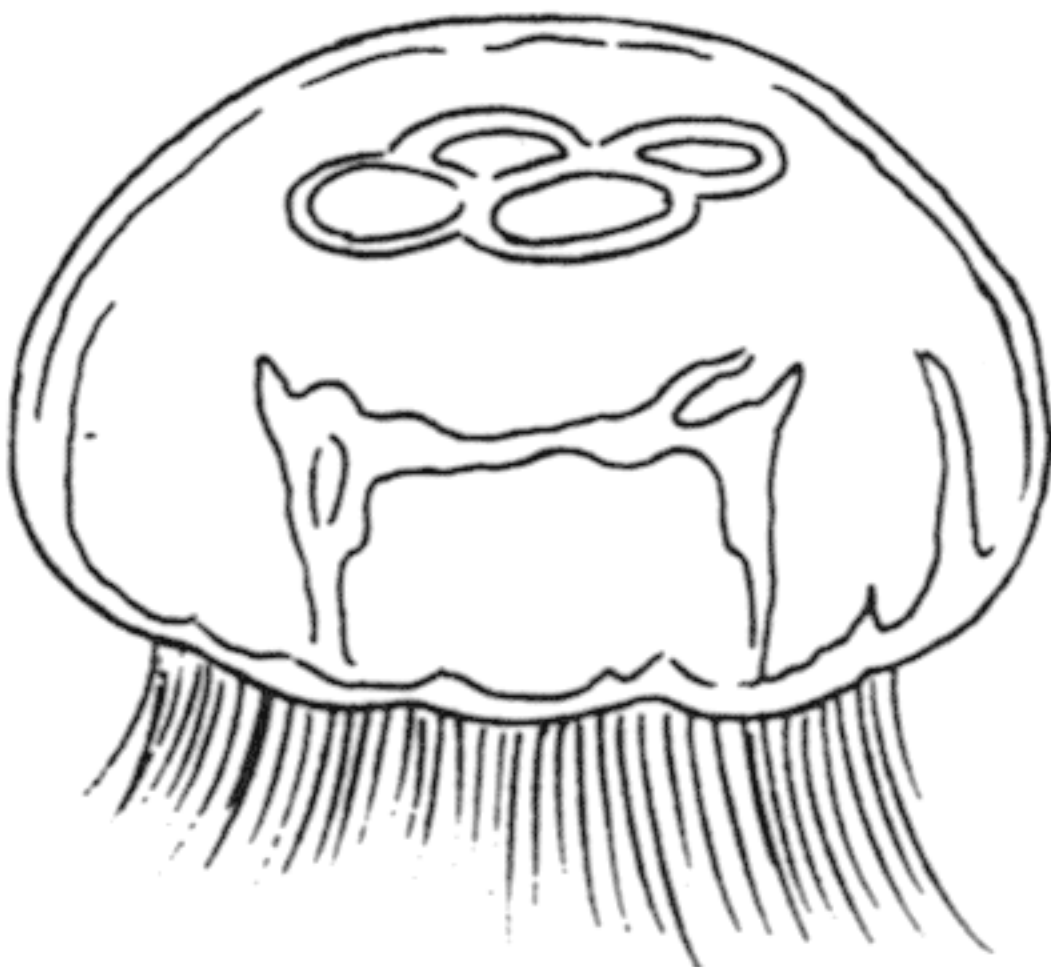
Profile



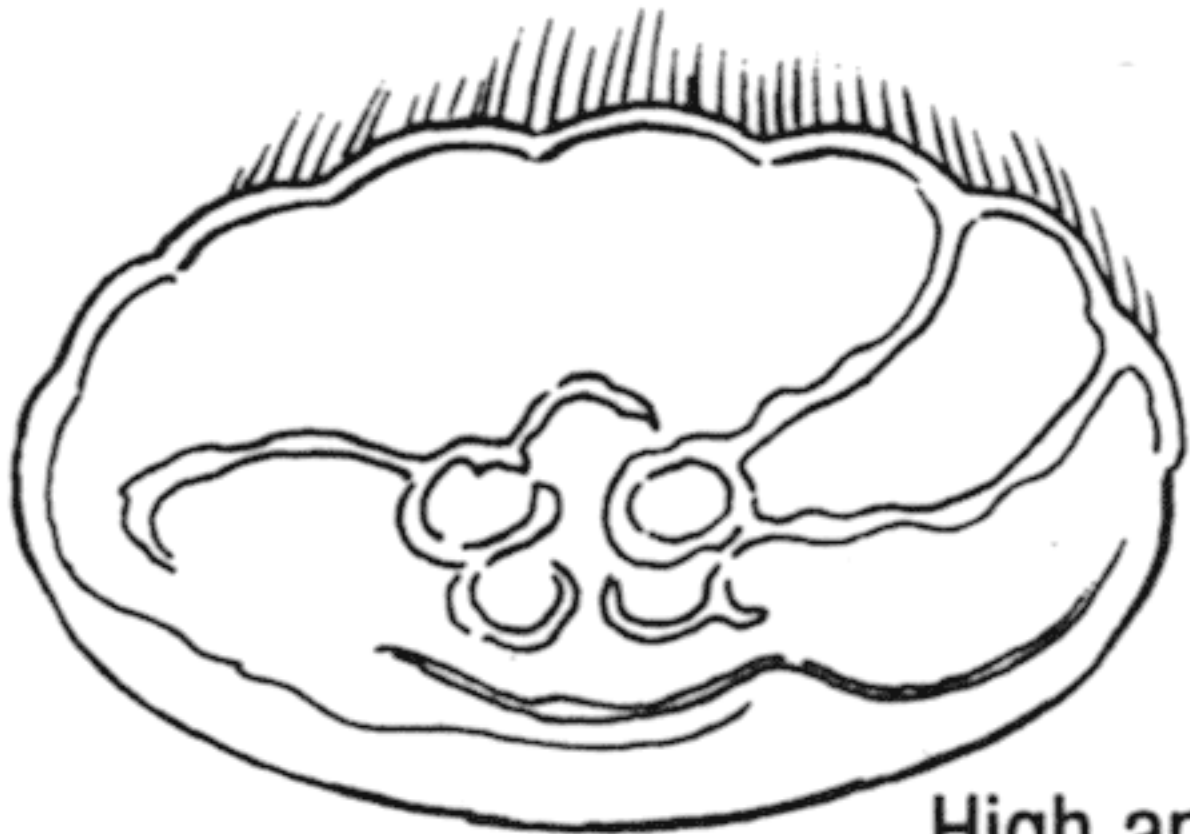
High angle



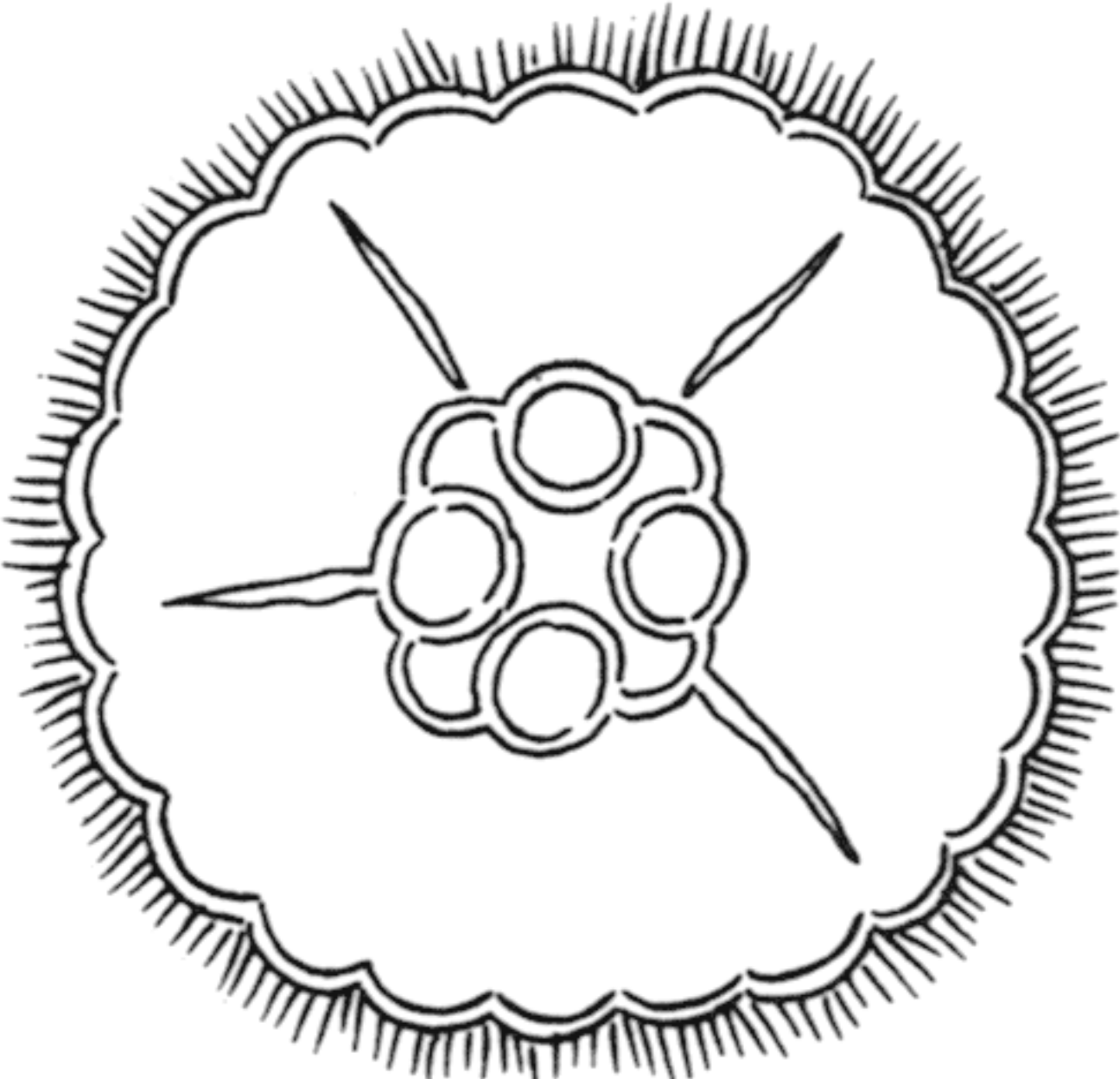
High angle (overhead view)



Slightly high angle



High angle

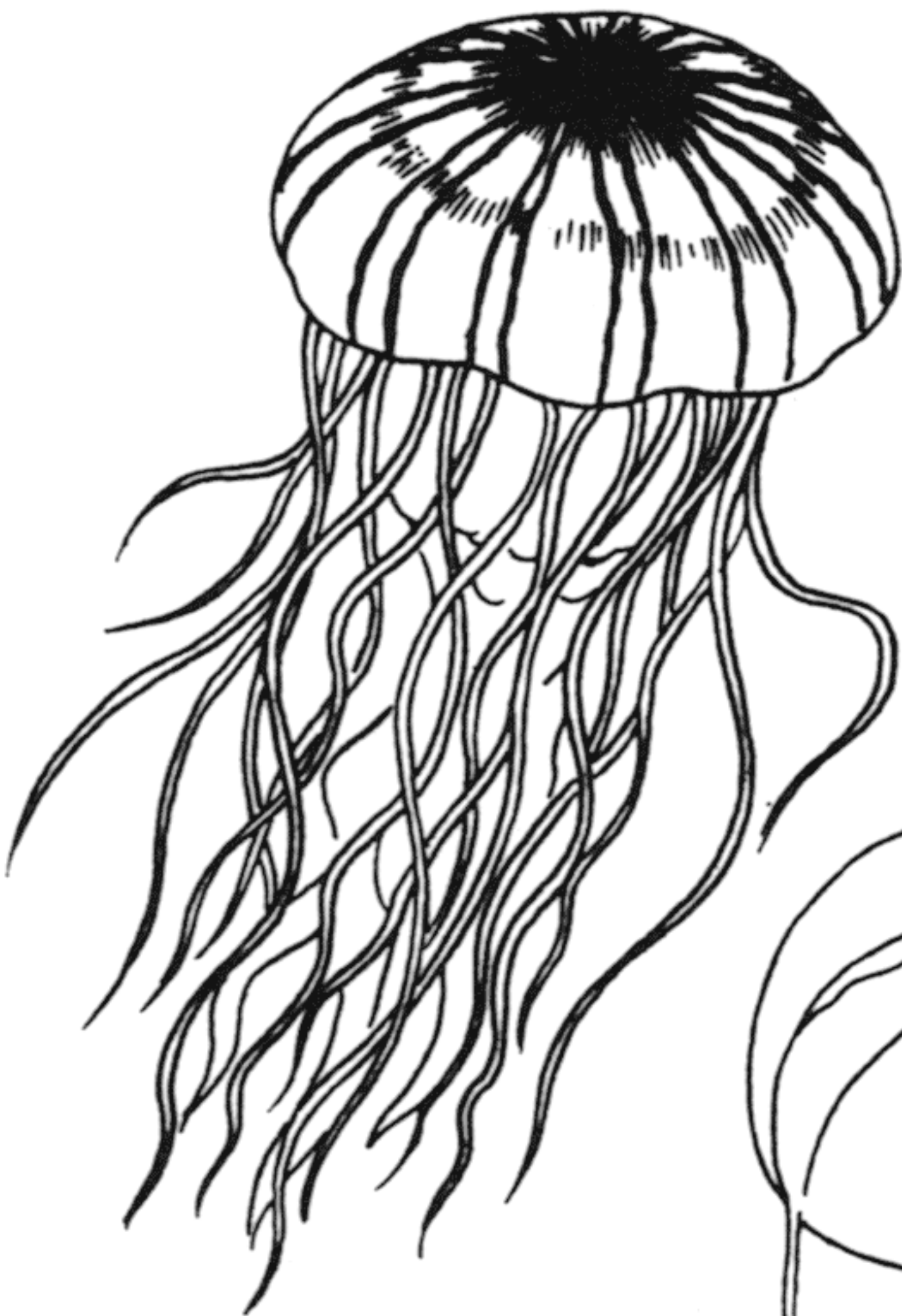


High angle  
(jellyfish with bell expanded)

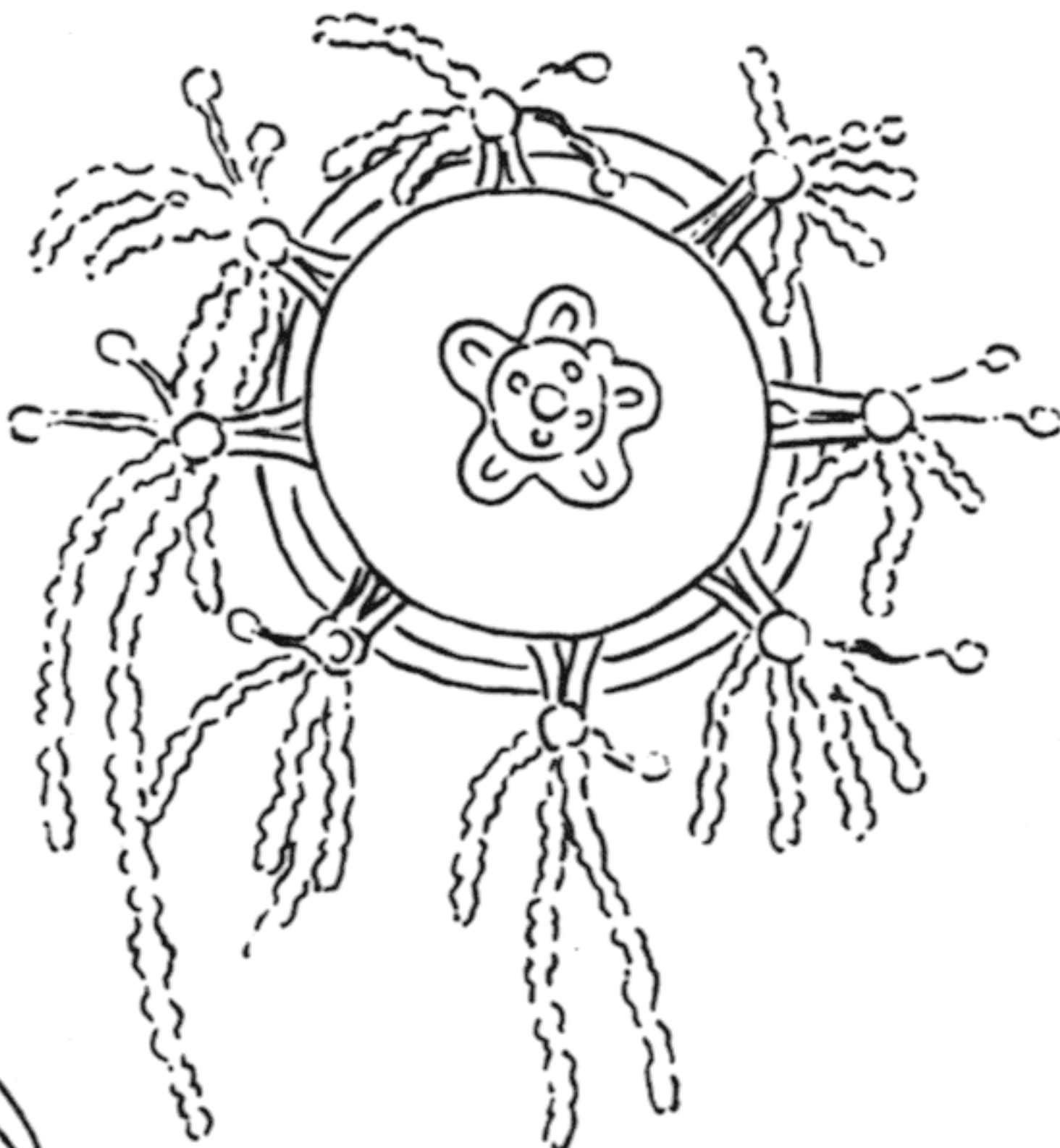


Low angle

Assorted Jellyfish



Lined sea nettle  
(*Chrysaora melanaster*)

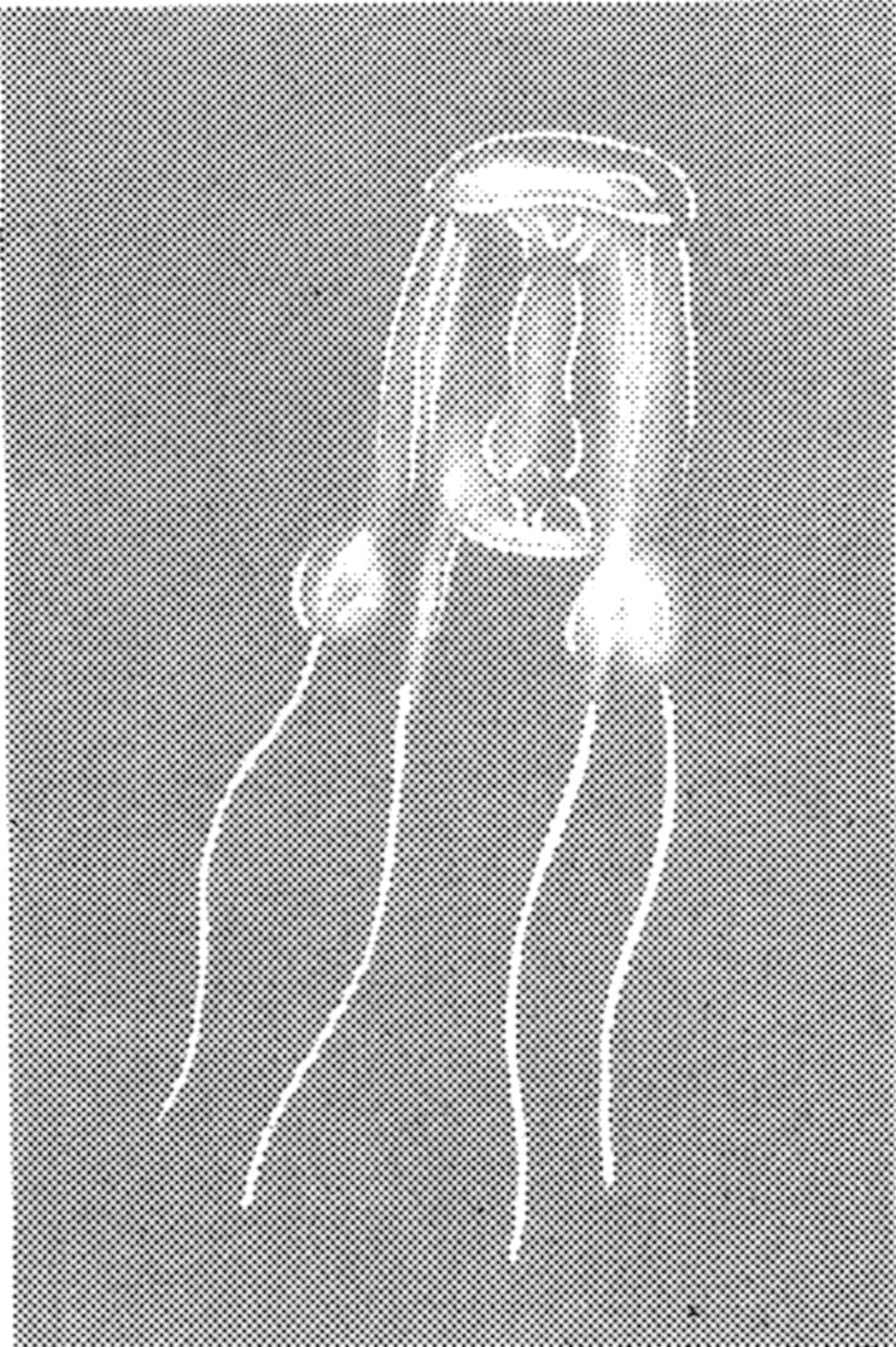


Edaashi kurage  
("branch-tentacle  
jellyfish"; *Cladonema  
uchidai*)



Karakasa kurage  
("umbrella jellyfish";  
*Liriope tetraphylla*)

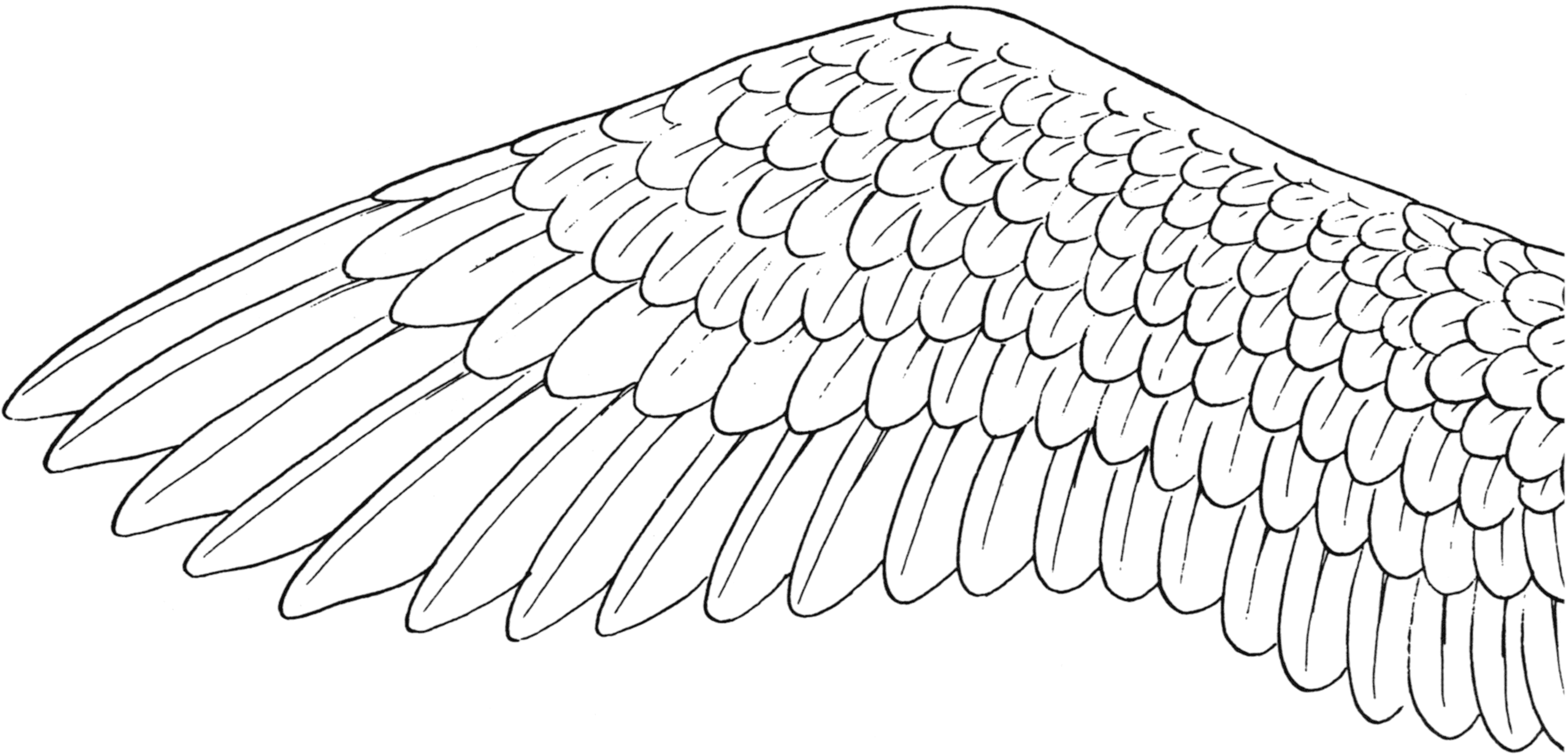
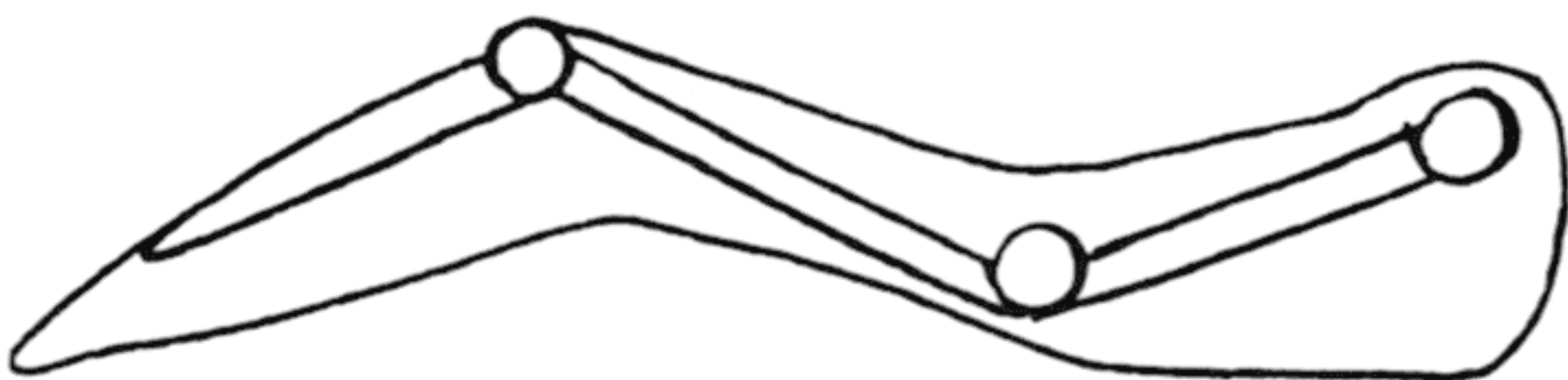
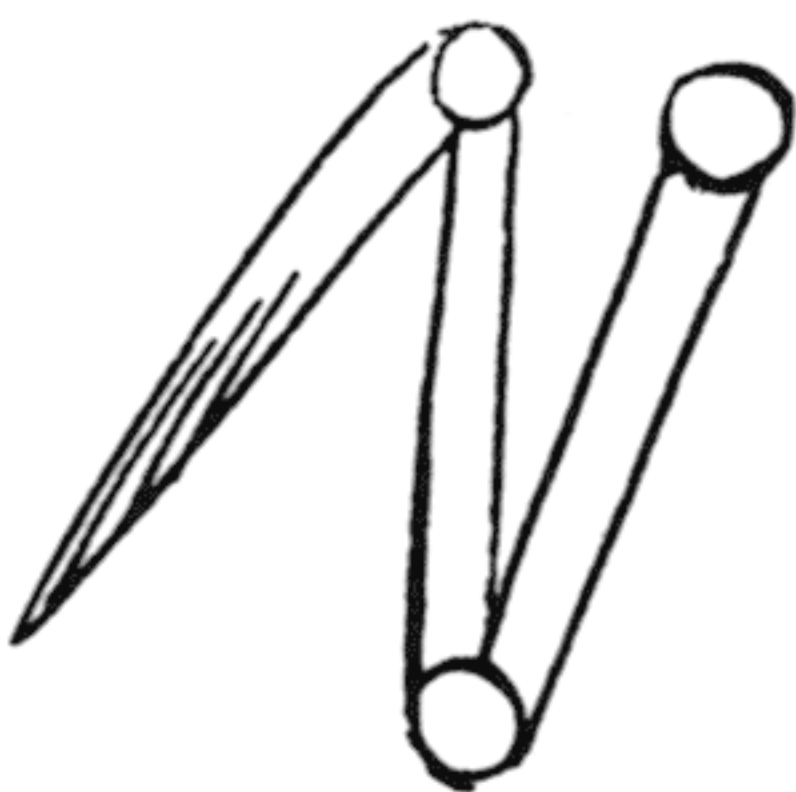
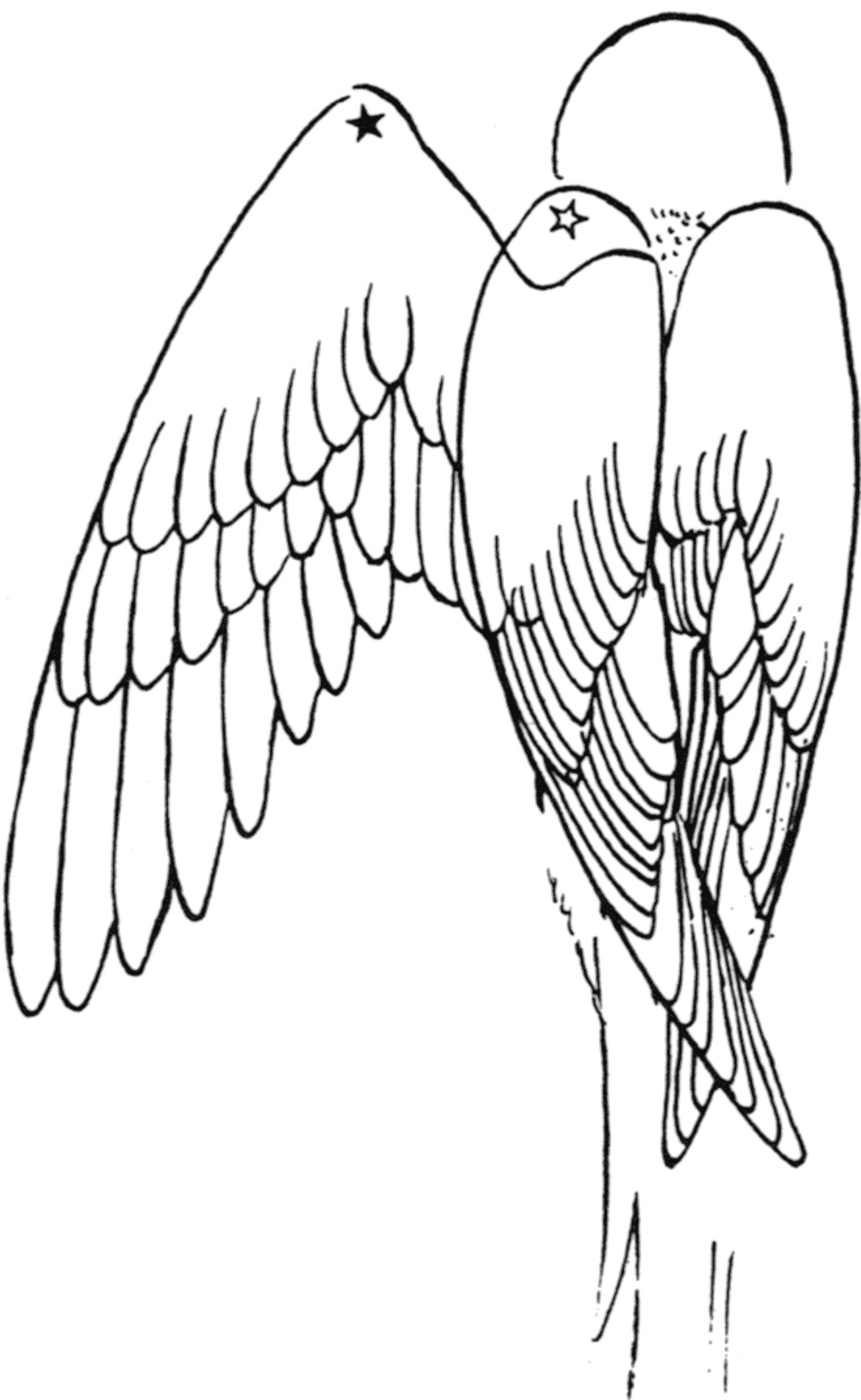
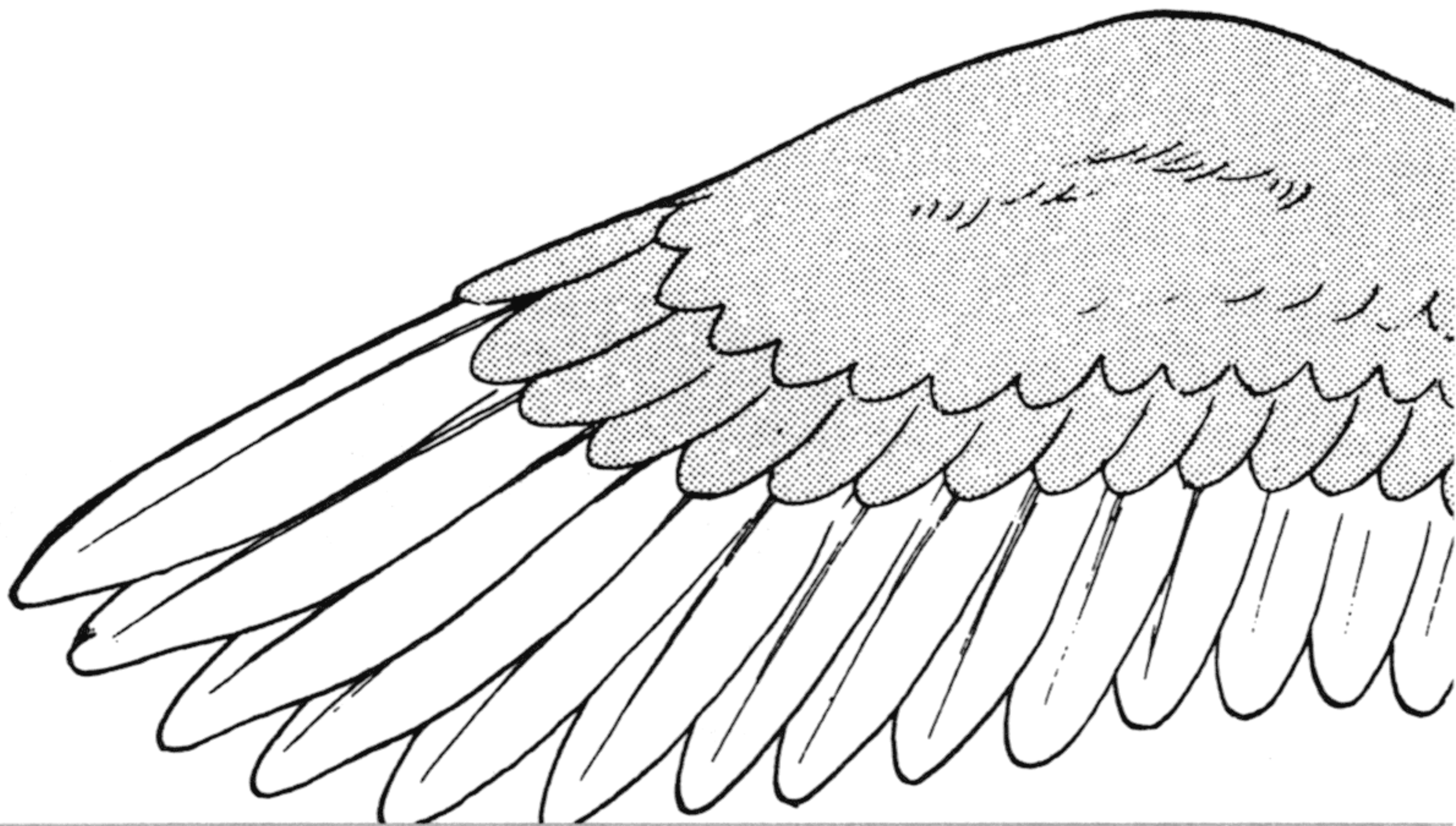
Andon kurage ("andon lamp jellyfish";  
*Charybdea rastonii* Haeckel)





# Chapter 4

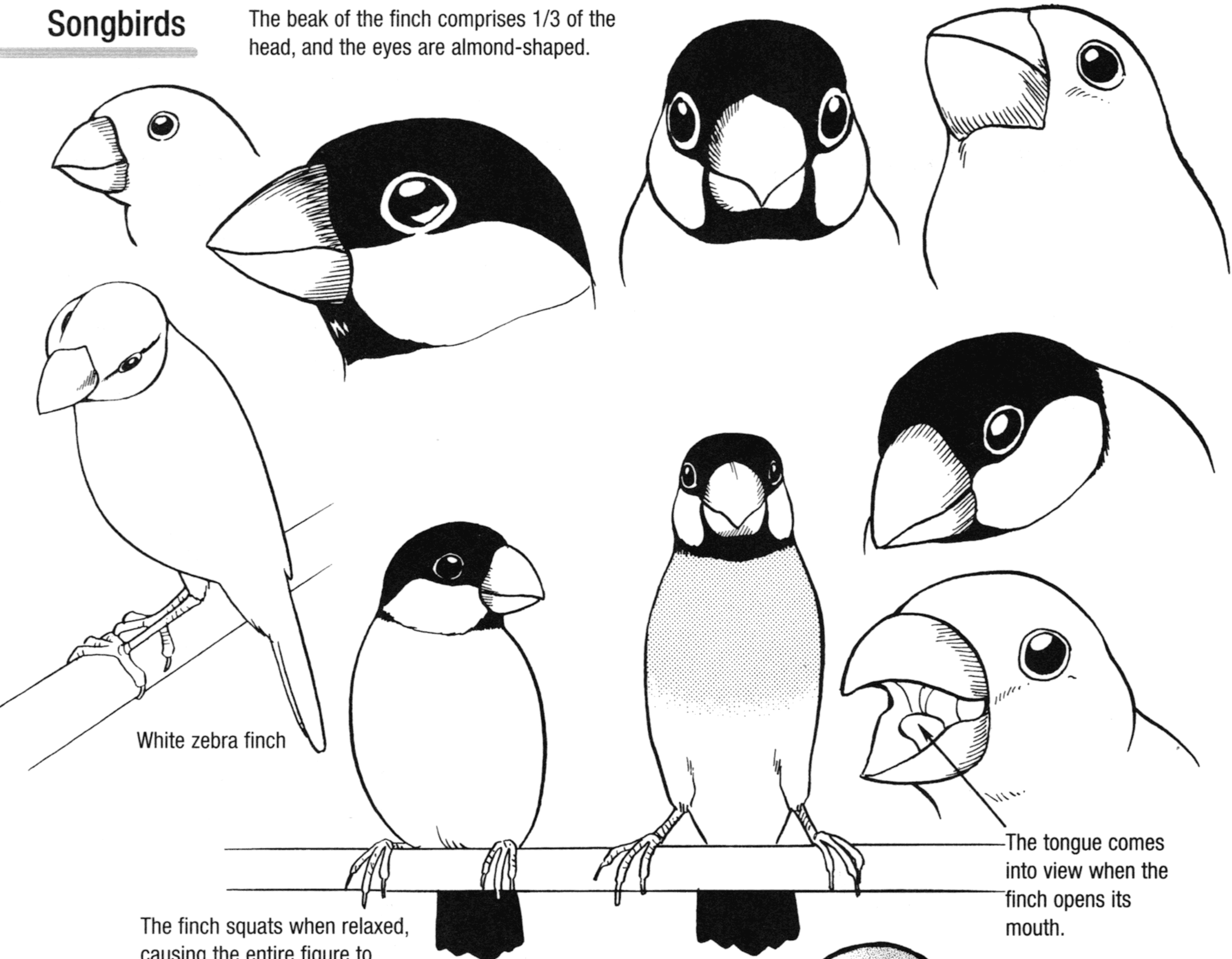
## Birds





Songbirds

The beak of the finch comprises 1/3 of the head, and the eyes are almond-shaped.



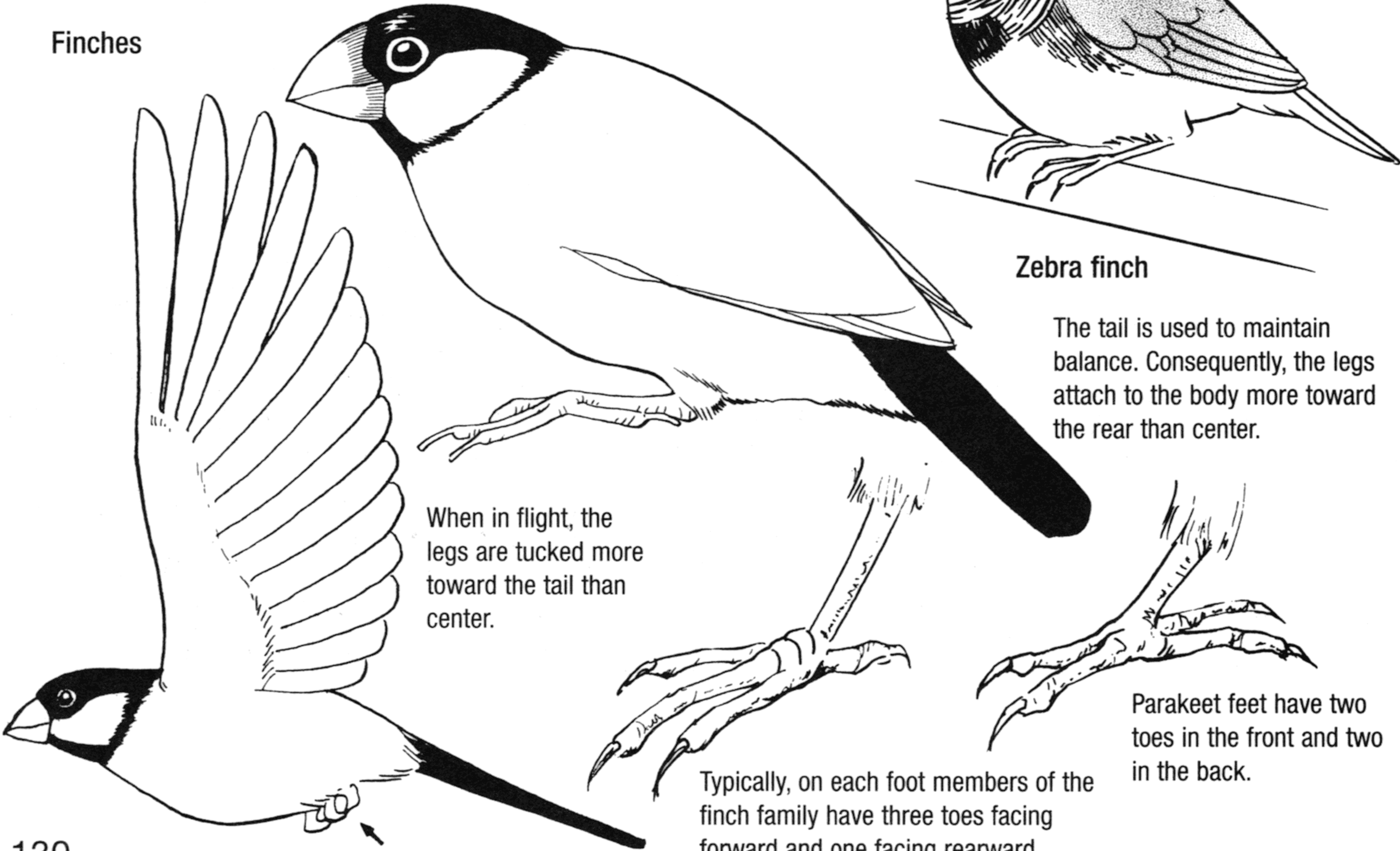
White zebra finch

The finch squats when relaxed, causing the entire figure to become rounded in appearance.

When the finch becomes alert or agitated, it holds its body erect, stretching itself thin.

The tongue comes into view when the finch opens its mouth.

Finches



Zebra finch

The tail is used to maintain balance. Consequently, the legs attach to the body more toward the rear than center.

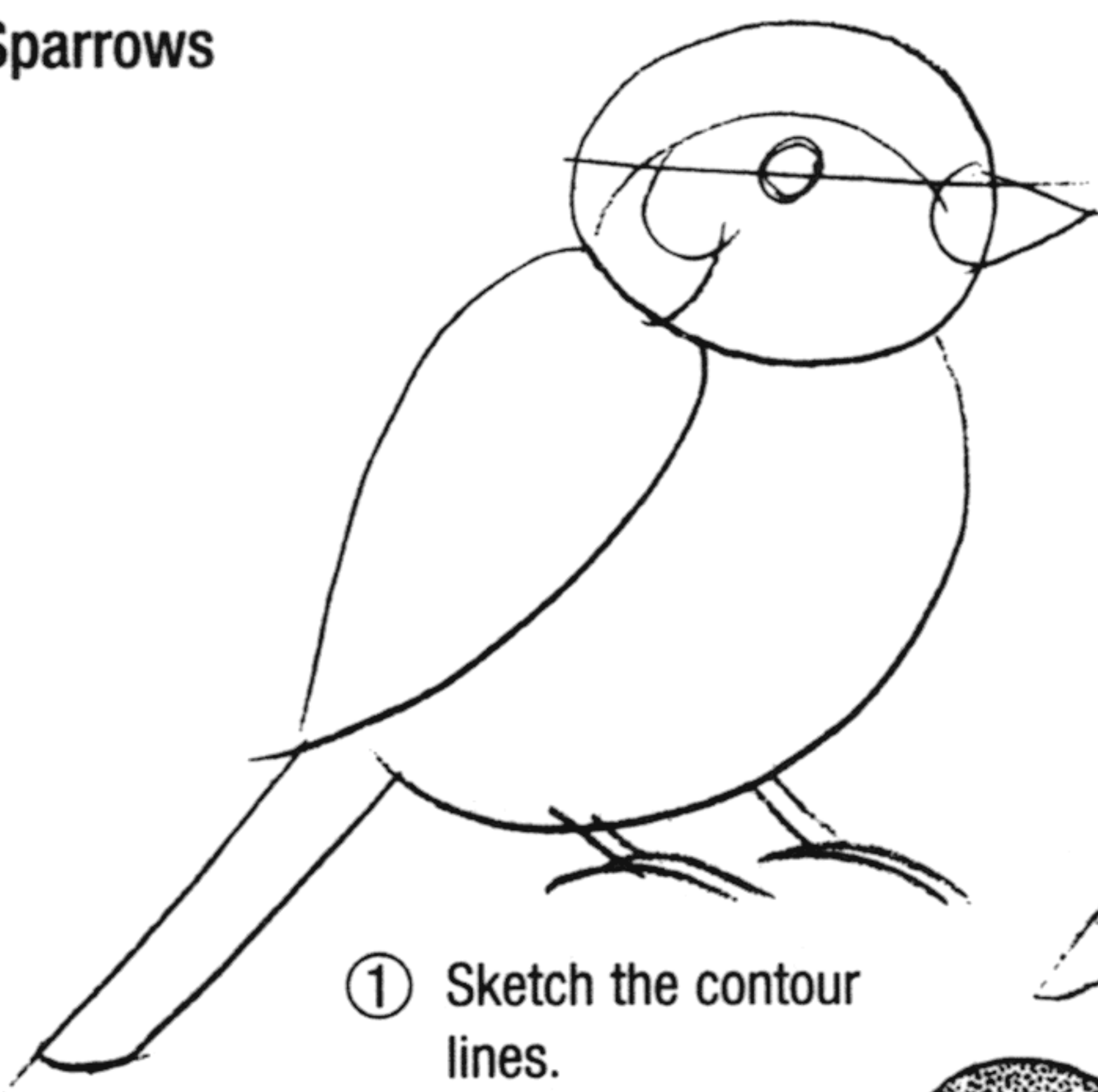
When in flight, the legs are tucked more toward the tail than center.

Typically, on each foot members of the finch family have three toes facing forward and one facing rearward.

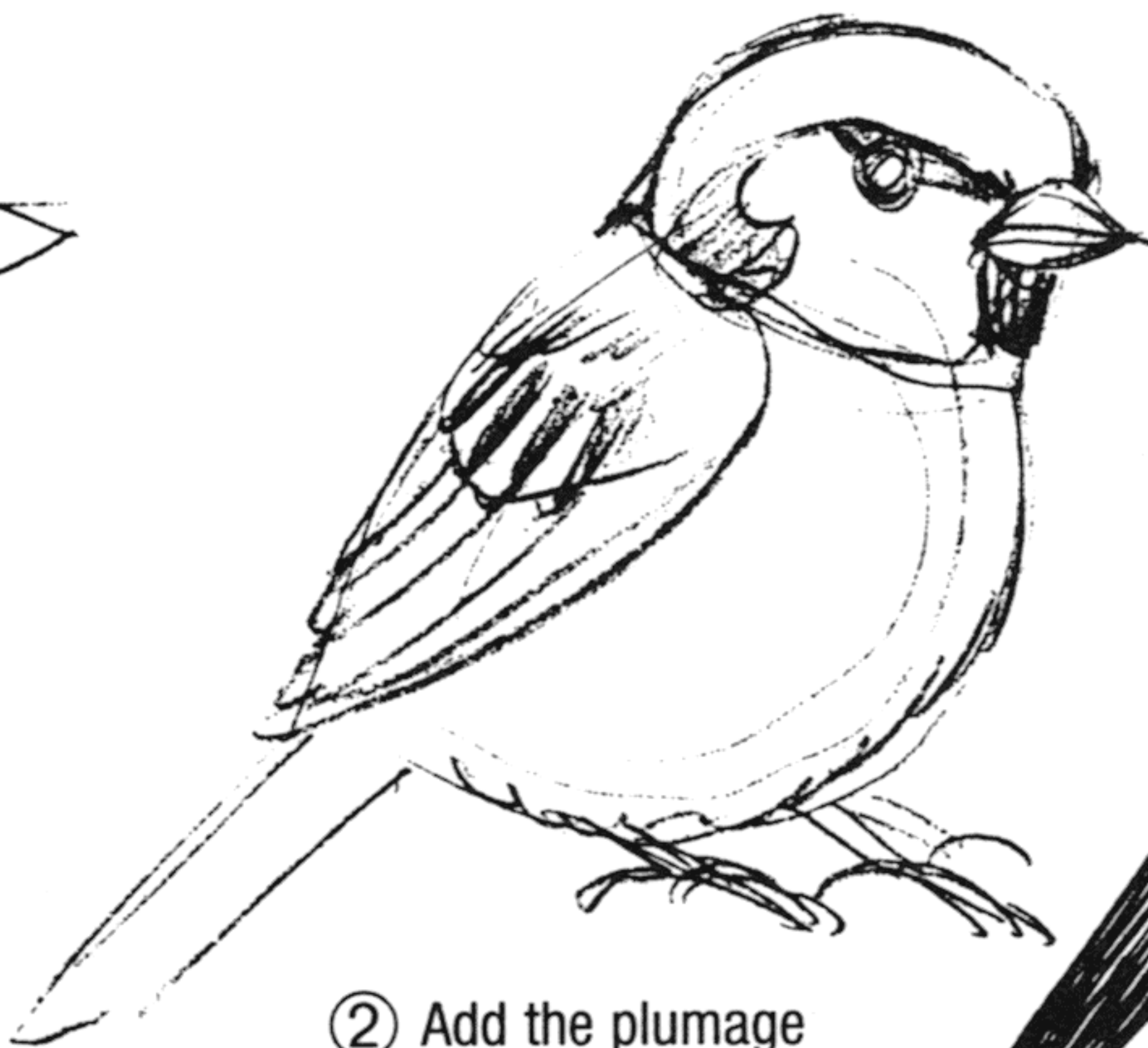
Parakeet feet have two toes in the front and two in the back.



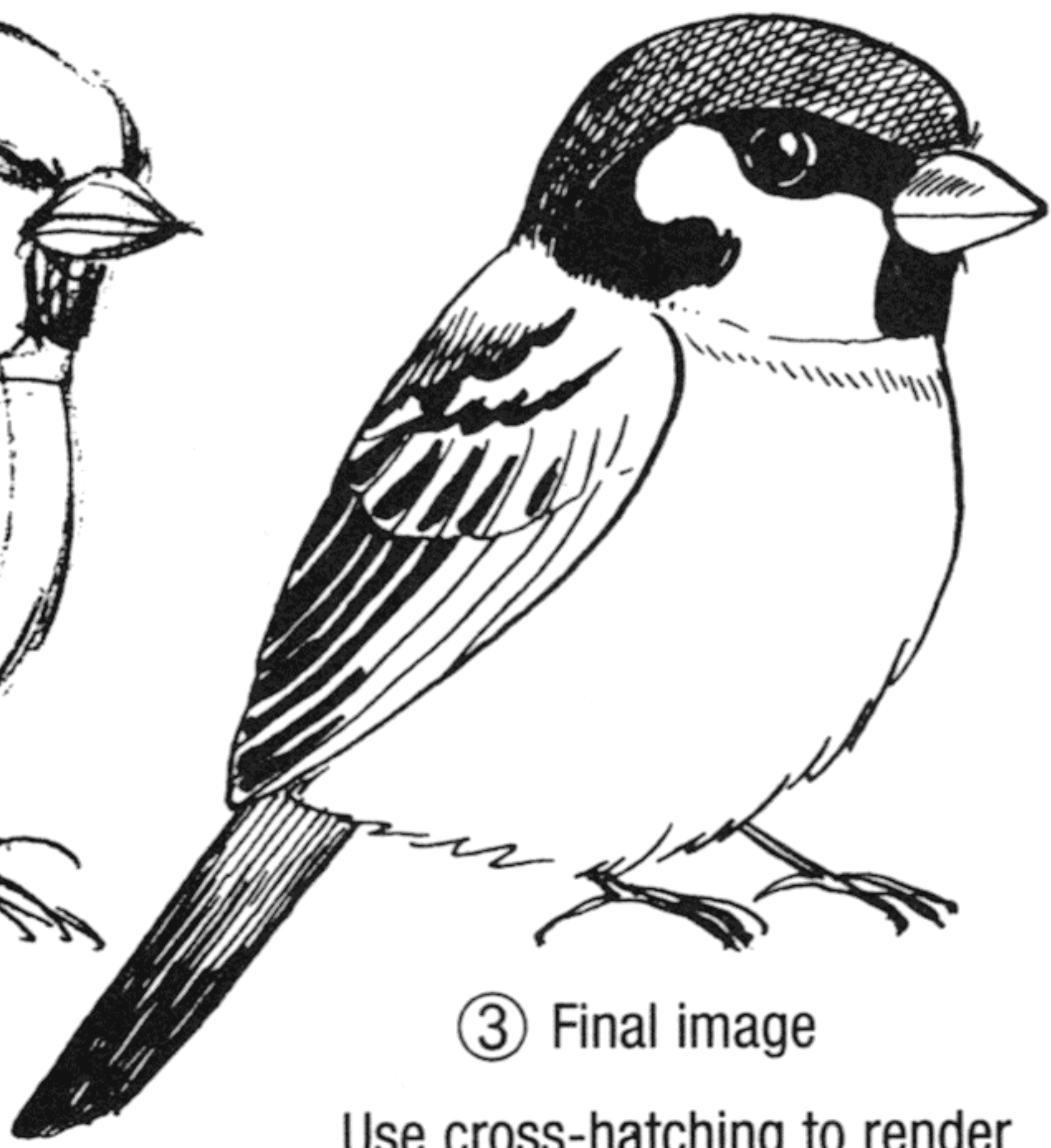
Sparrows



① Sketch the contour lines.



② Add the plumage pattern.



③ Final image

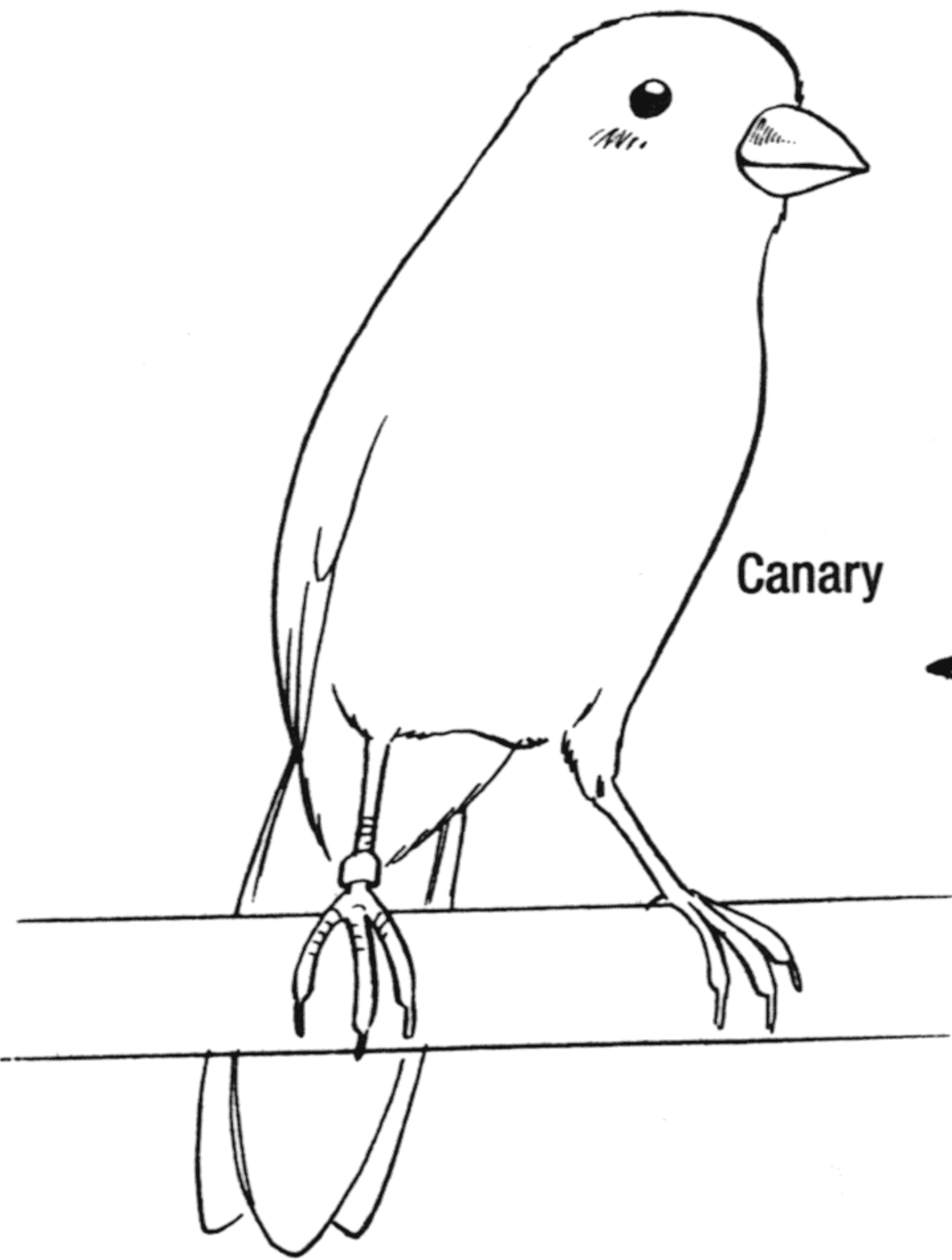
Use cross-hatching to render effectively the head's dark brown coloration.



In the winter, sparrows fluff up their feathers, making them appear rounder.



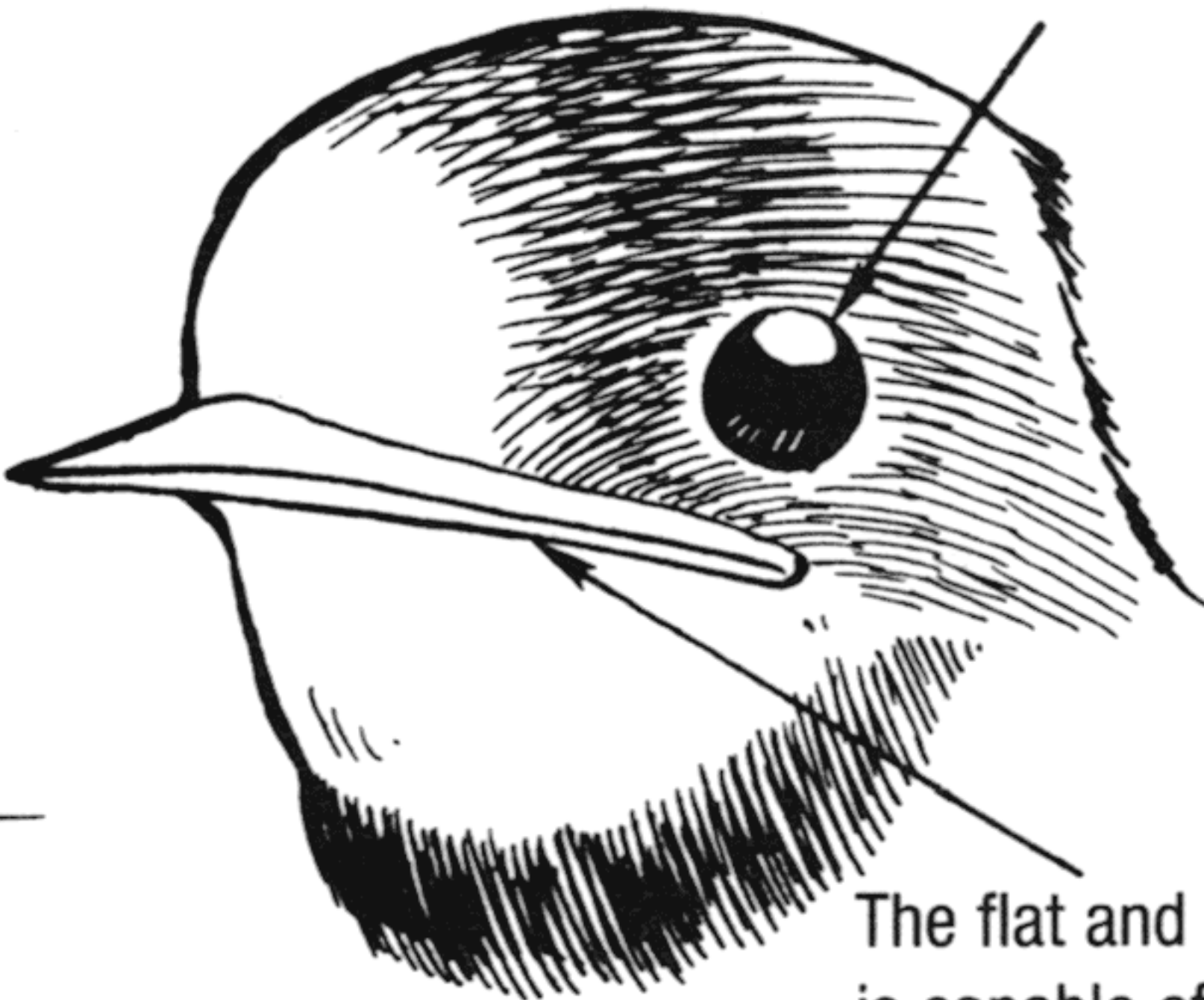
The beak is small, occupying about 1/4 of the head. Try to make the beak slightly larger than the eyes.



Canary

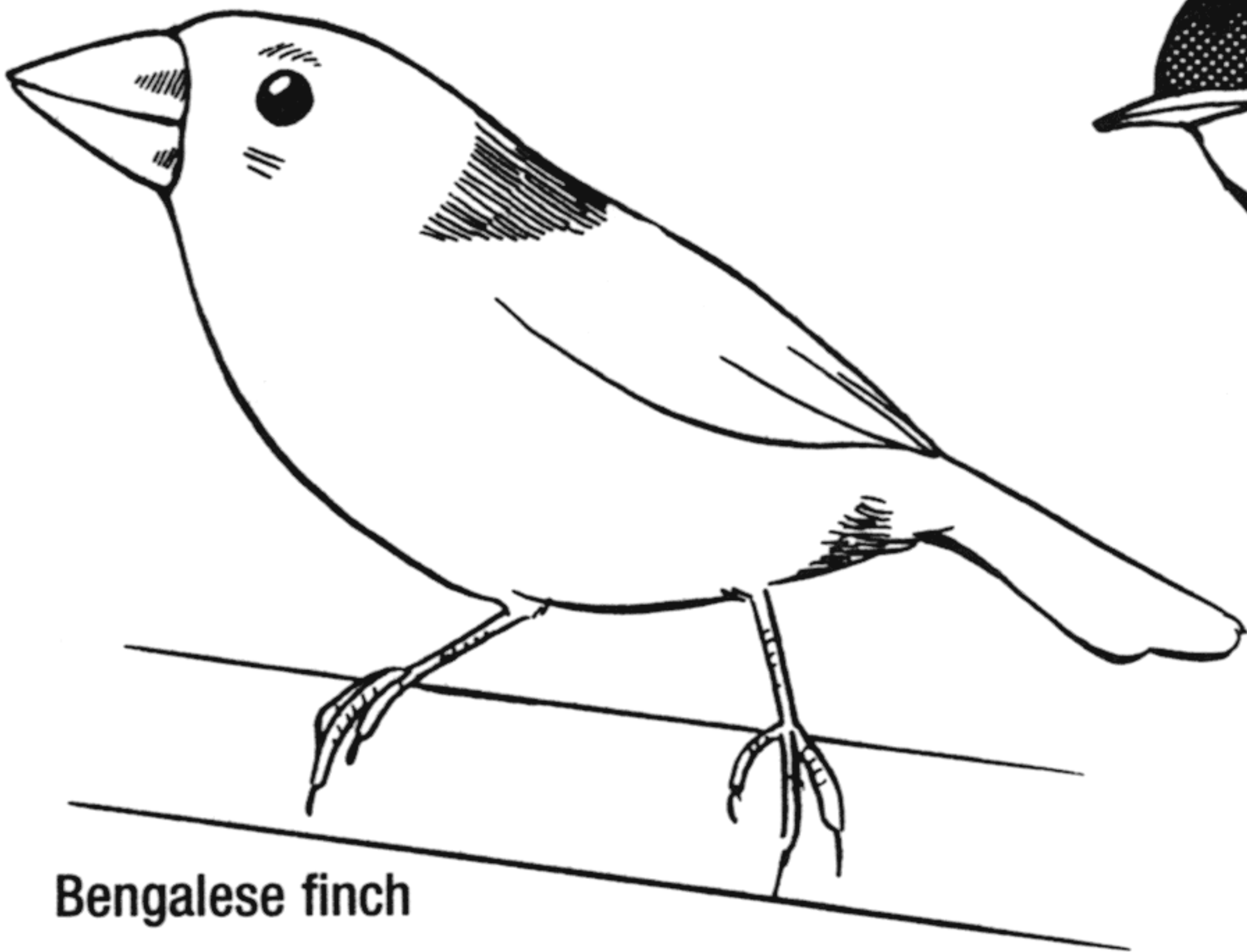
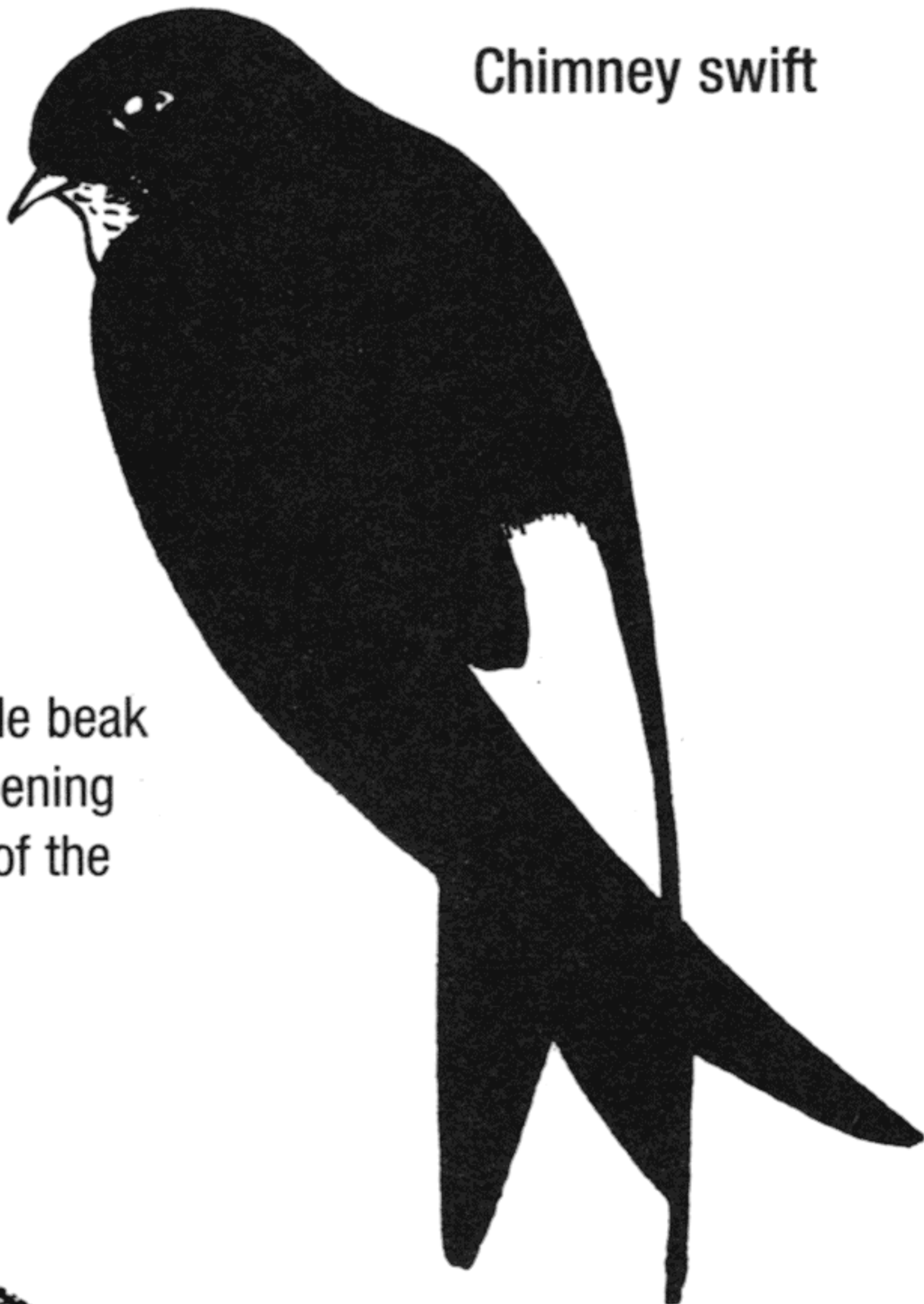
Swallows

The eyes are perfectly round.

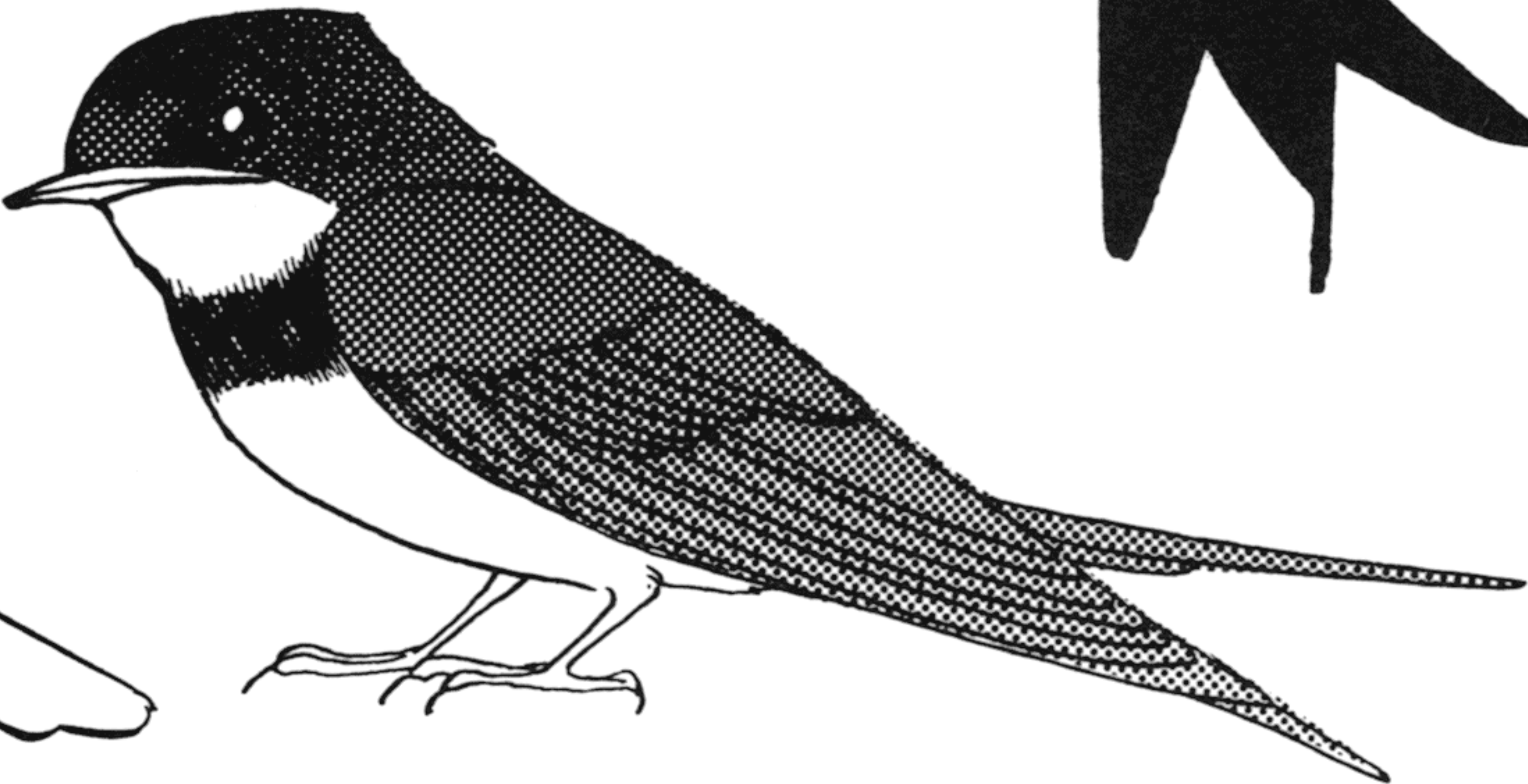


The flat and wide beak is capable of opening to half the size of the entire head.

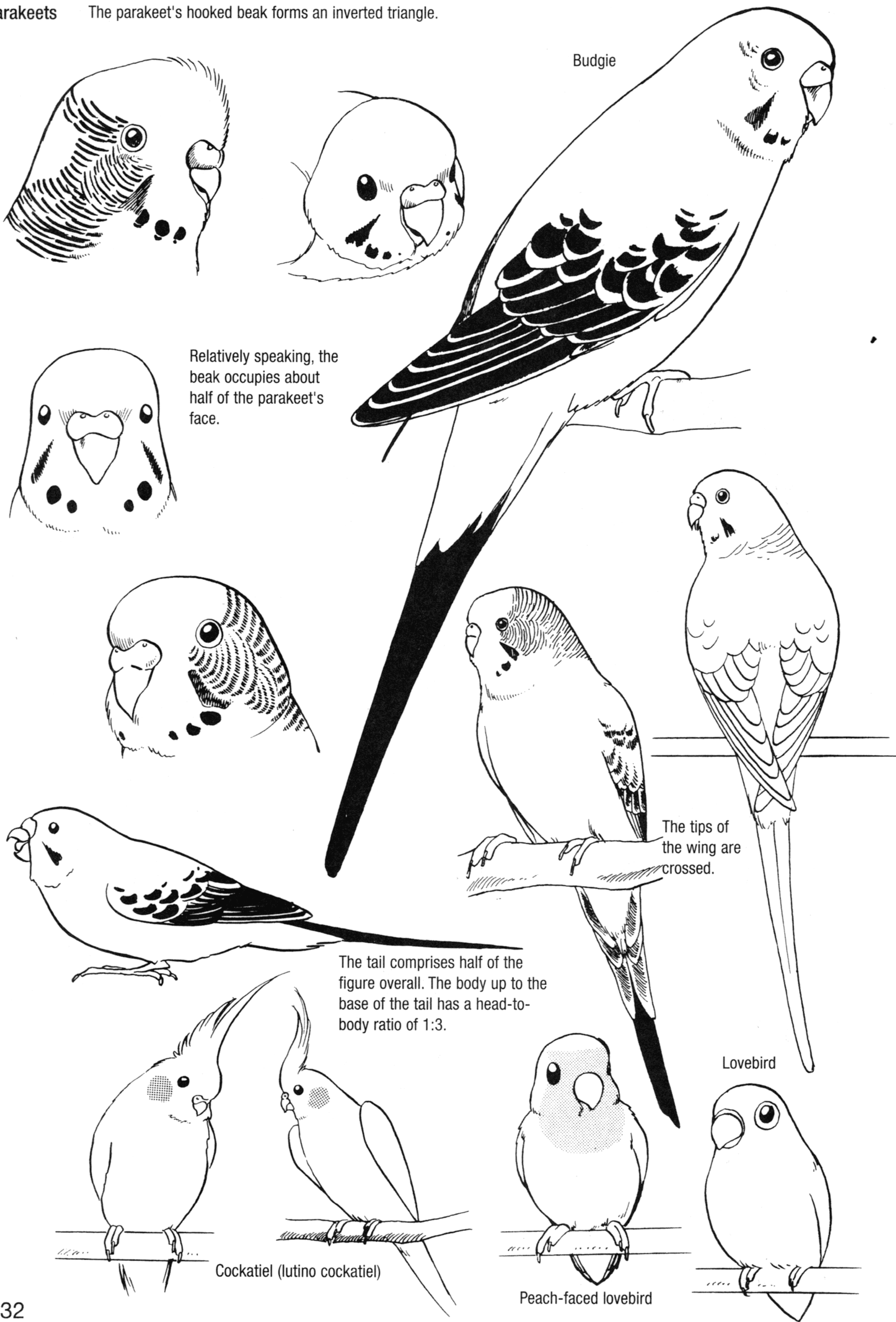
Chimney swift



Bengalese finch







Budgie

Relatively speaking, the beak occupies about half of the parakeet's face.

The tips of the wing are crossed.

The tail comprises half of the figure overall. The body up to the base of the tail has a head-to-body ratio of 1:3.

Lovebird

Cockatiel (lutino cockatiel)

Peach-faced lovebird

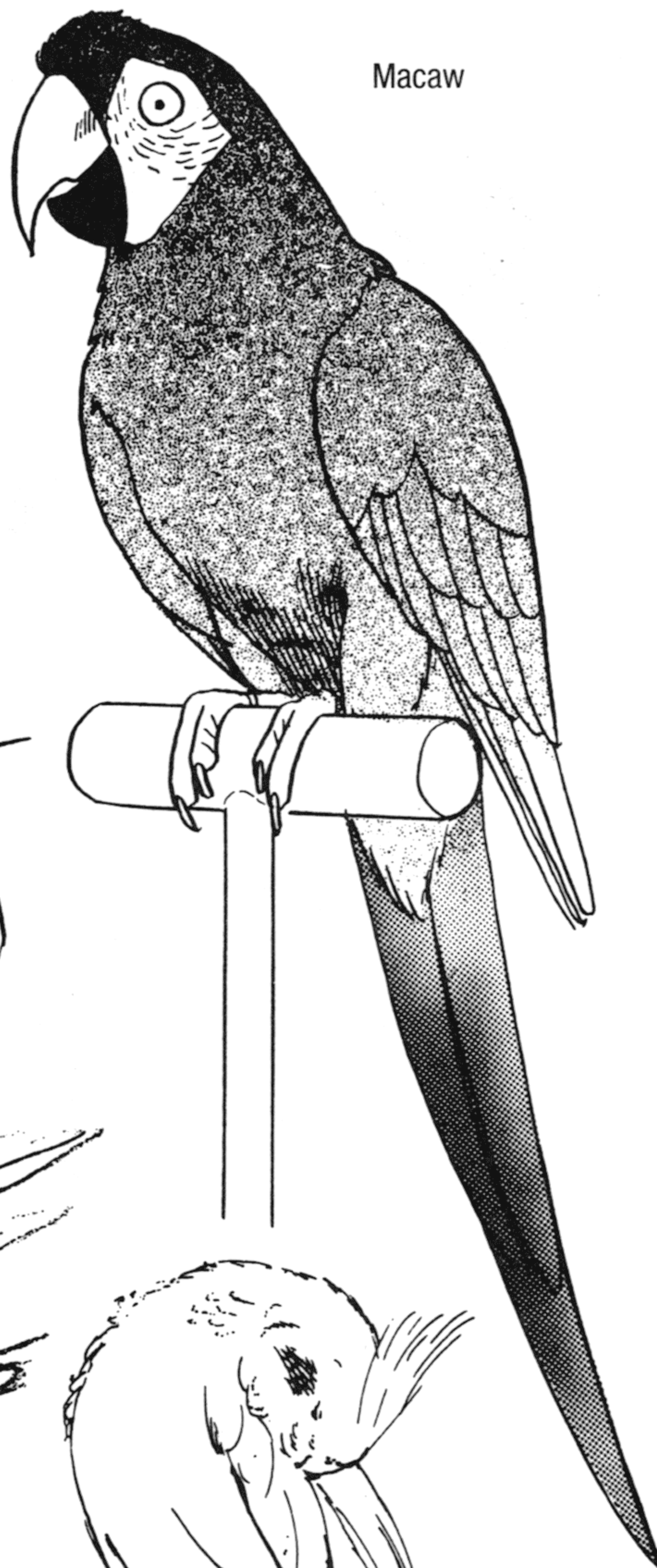




Conure



Cockatoo



Macaw



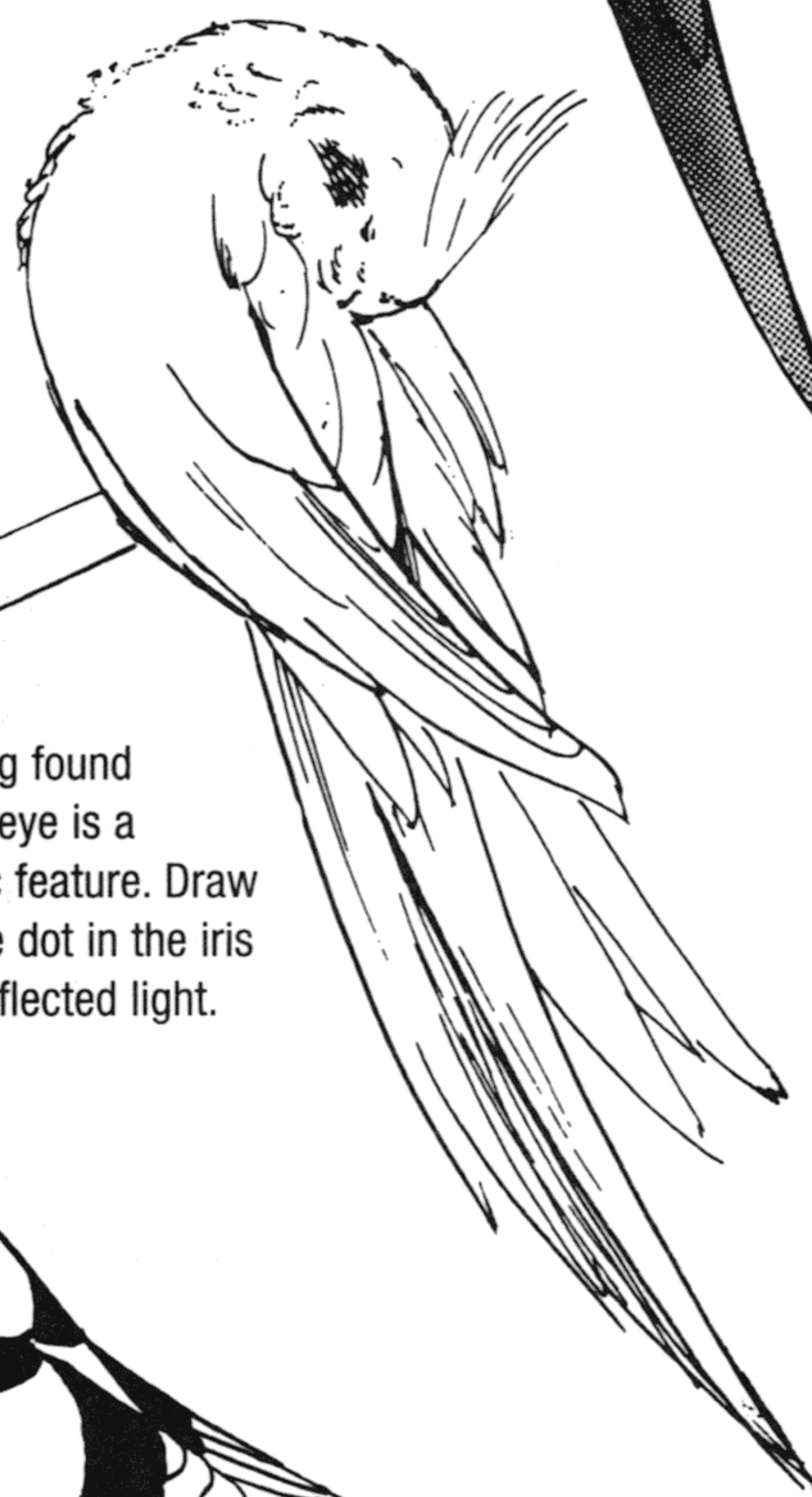
Yellow-cheeked Amazon



These birds are capable of rotating their heads 180° and can bend their body to touch the base of the tail with their beak.

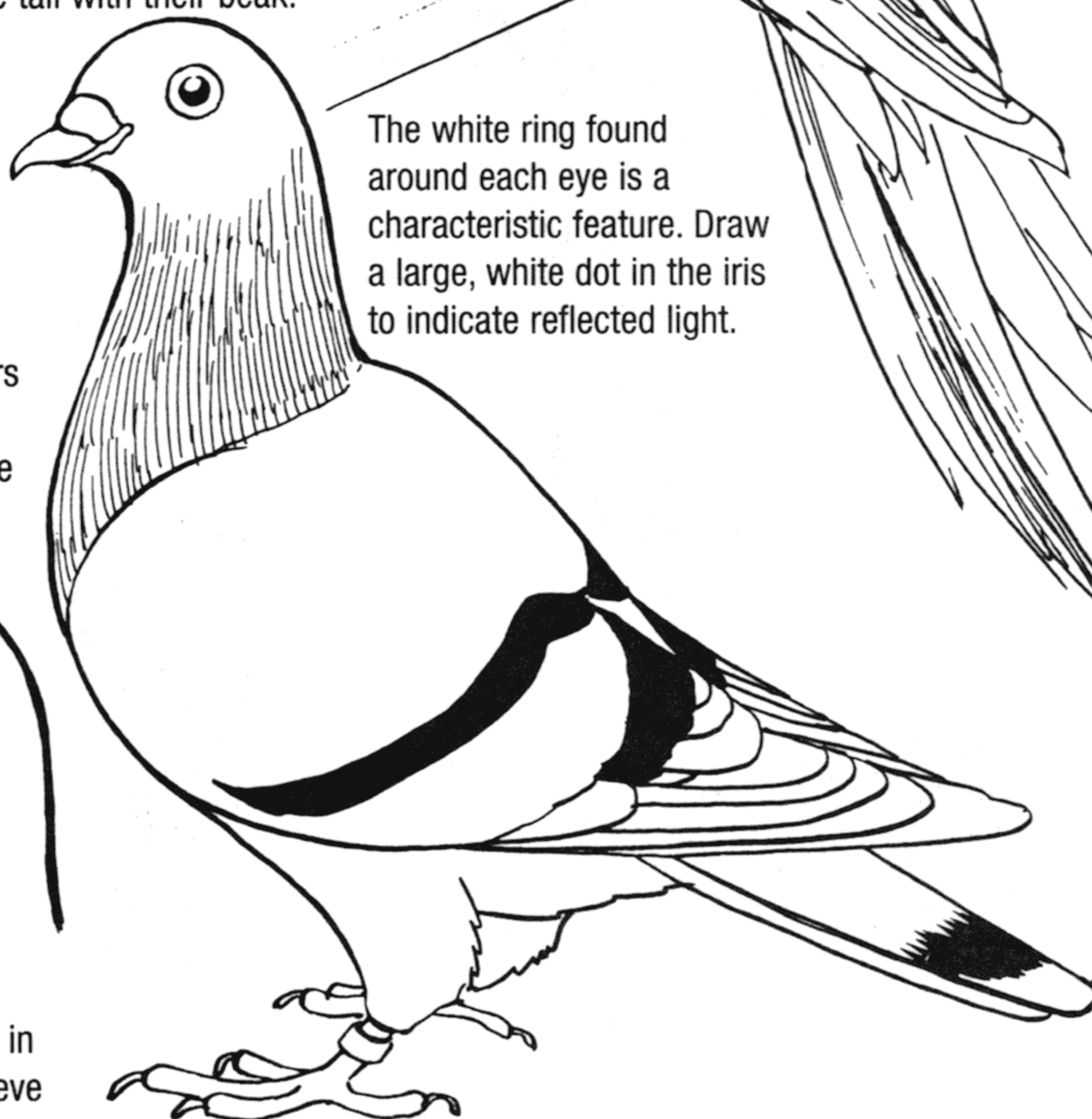


Japanese robin

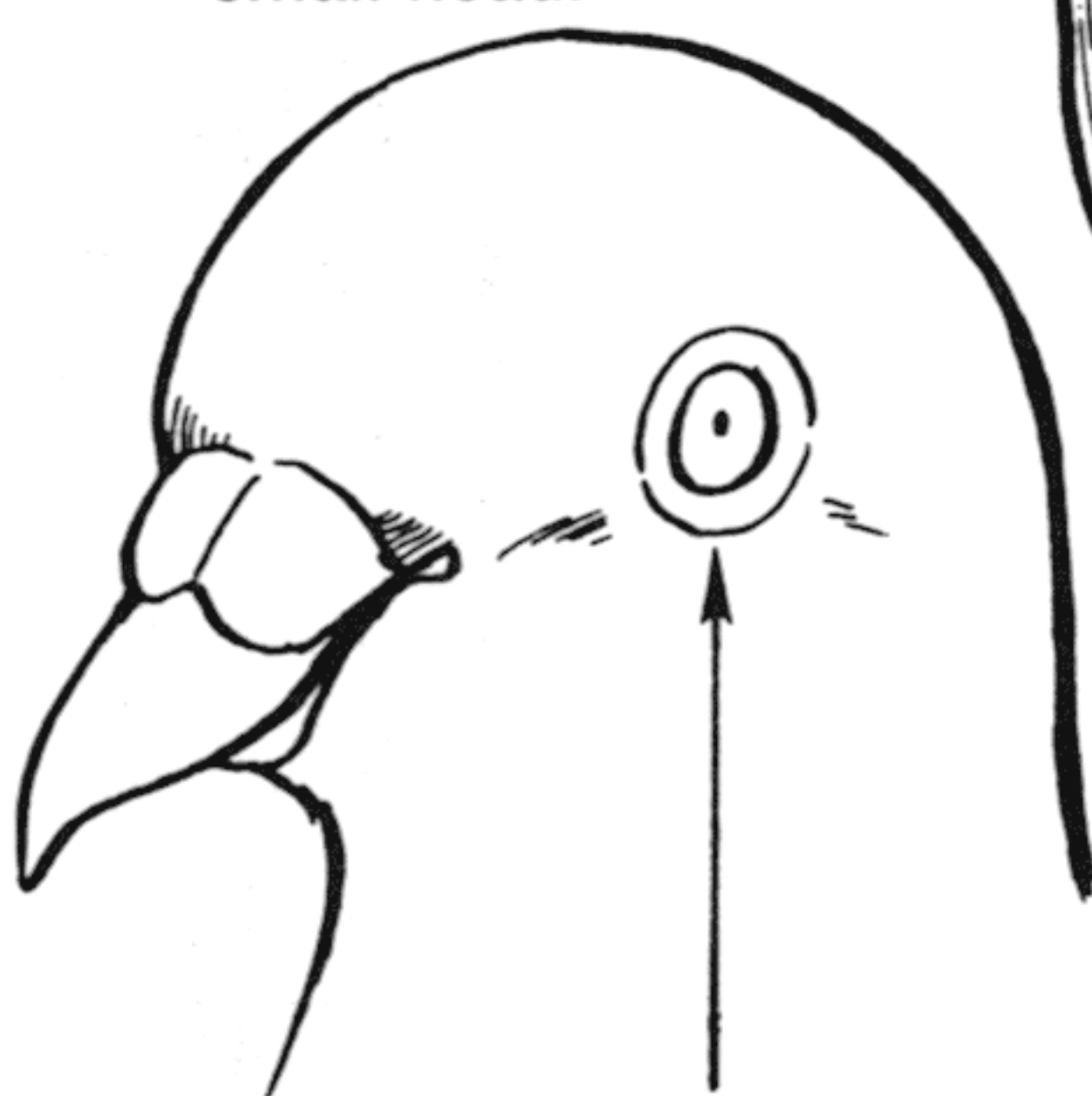


The white ring found around each eye is a characteristic feature. Draw a large, white dot in the iris to indicate reflected light.

Use undulating contours from the dramatically puffed-out breast to the small head.



Pigeons



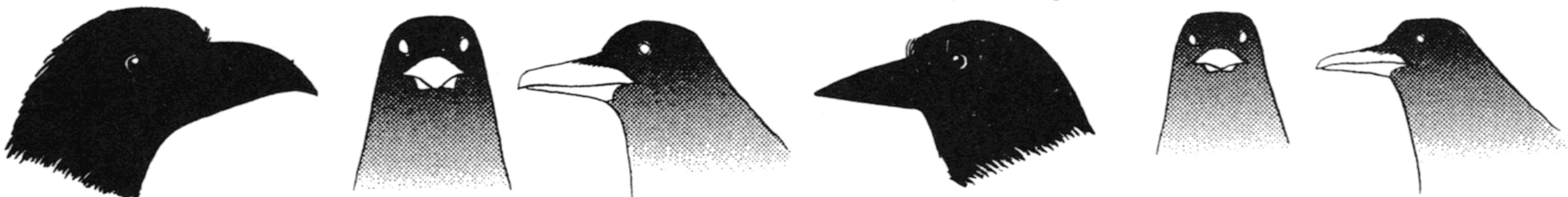
Draw a tiny dot for the pupil in the center of the iris to achieve that distinctly pigeon-esque look.



Crows

Distinguish the different species of crows through the thickness of the beak.

Slender beak: Carrion crow  
Thick beak: Jungle crow  
Both do appear together in a flock.



Jungle crow

Carrion crow



Color the wings black in a manner that their shape can still be recognized.

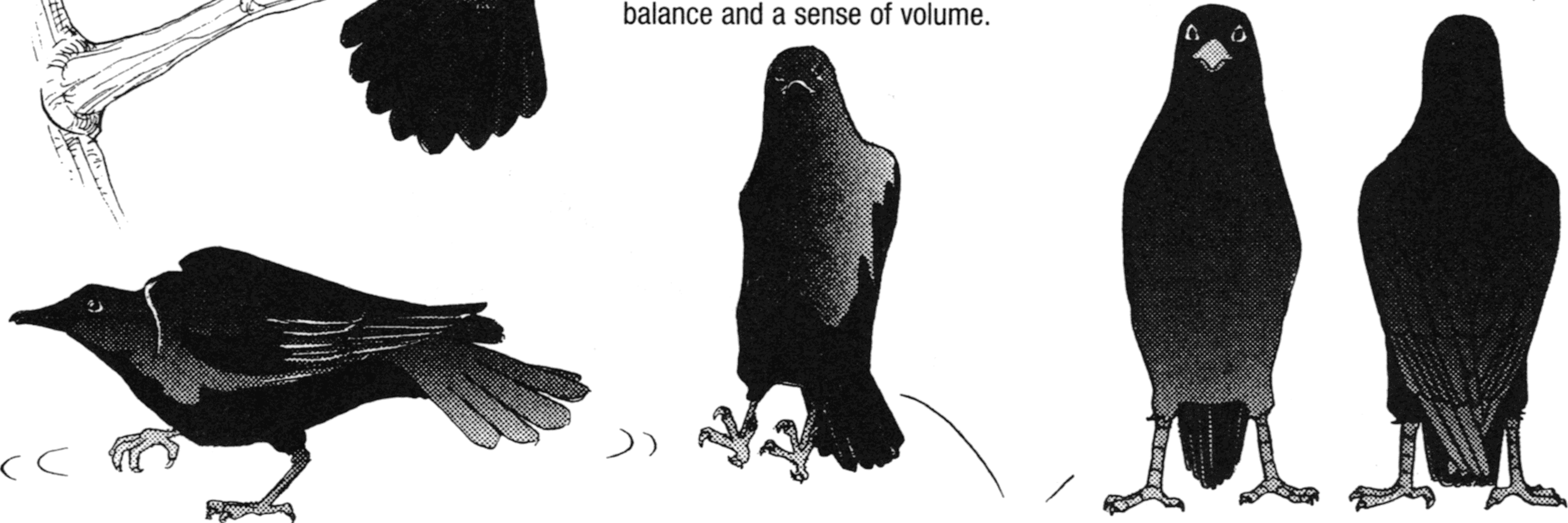


Add white touches after coloring the entire figure black.

Define each feather and then add gradation tone.

Etch the tone in the direction the feathers grow.

Exploit the various methods of representation using black (e.g. solid black, gradation tone). Lay down black and then add white on top, or add tone and then etch it to achieve visual balance and a sense of volume.



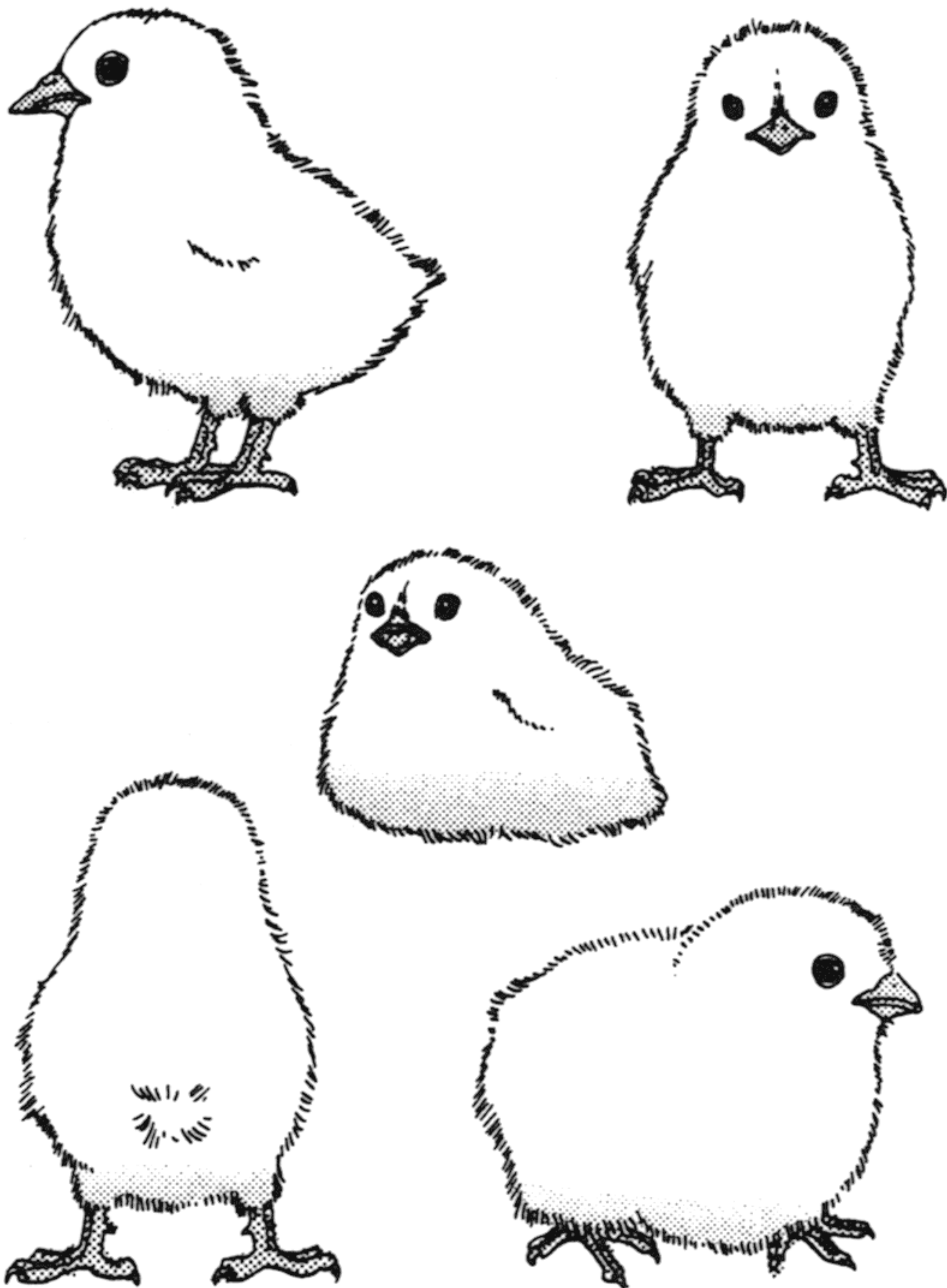


# Chickens

Maintaining the hen's comb at about 1/2 to 1/3 the size of the rooster's will allow you to distinguish between the two.

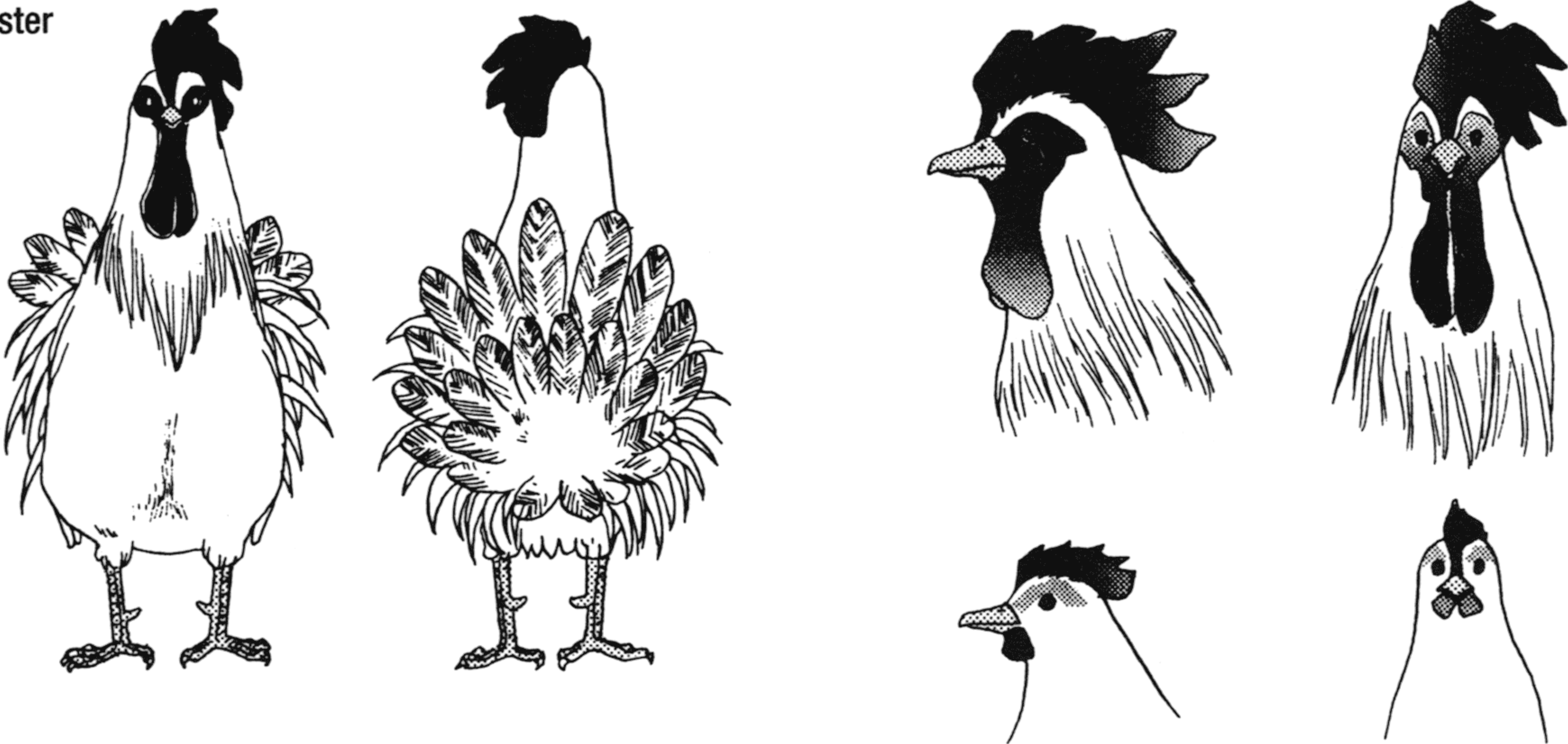


Chick

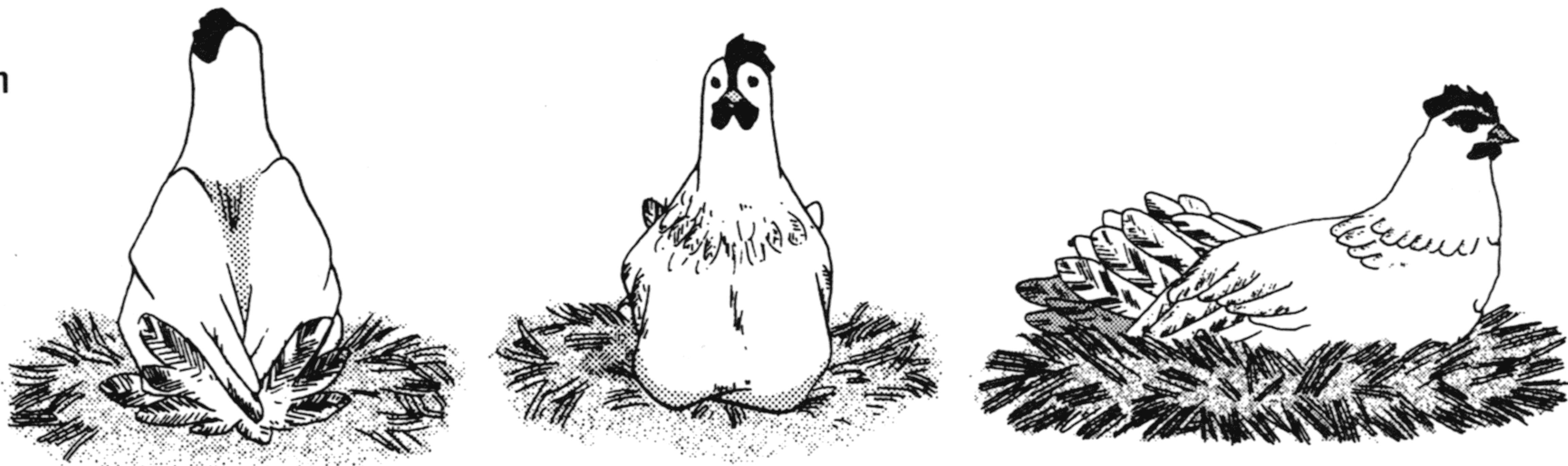


Avoid using clearly defined contour lines, but instead use diagonal hatching to create the feel of a downy chick.

Rooster



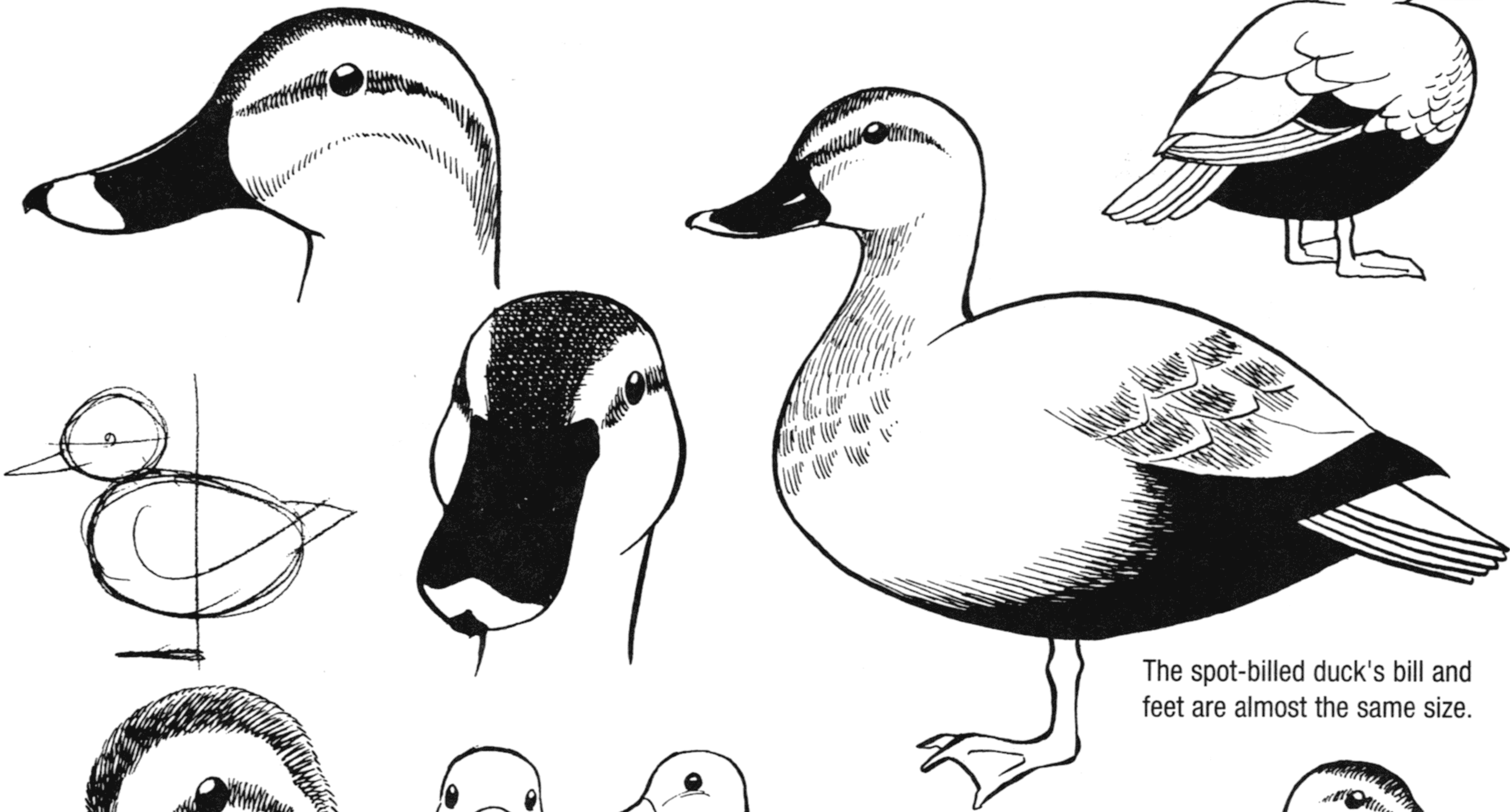
Hen





Waterfowl

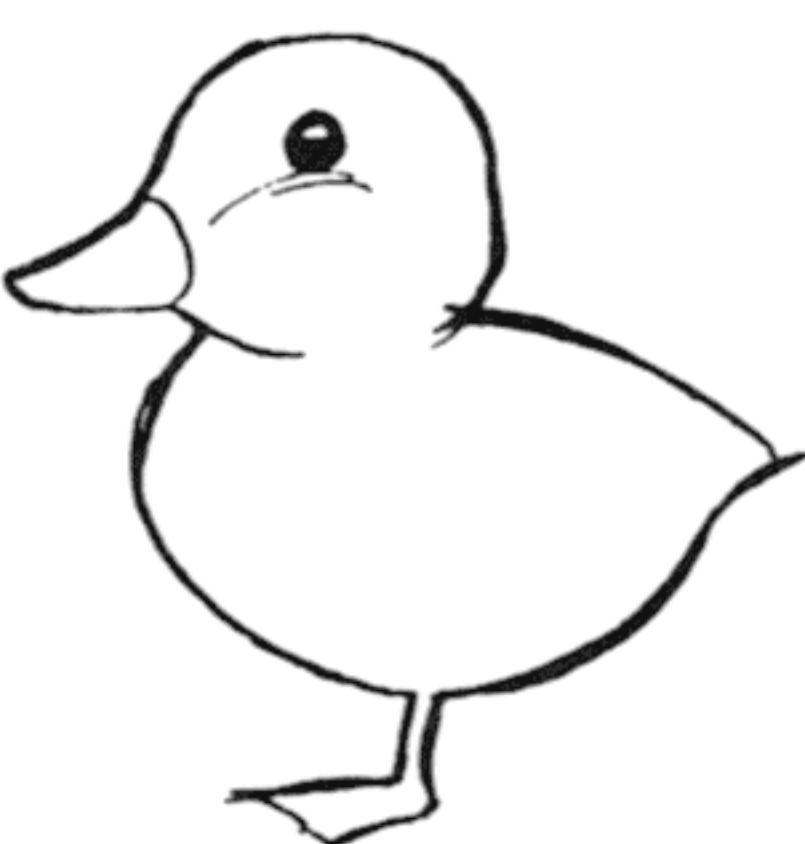
Attach a shoehorn to an egg-shaped head, and viola! A water bird.



The spot-billed duck's bill and feet are almost the same size.



Spot-billed duckling



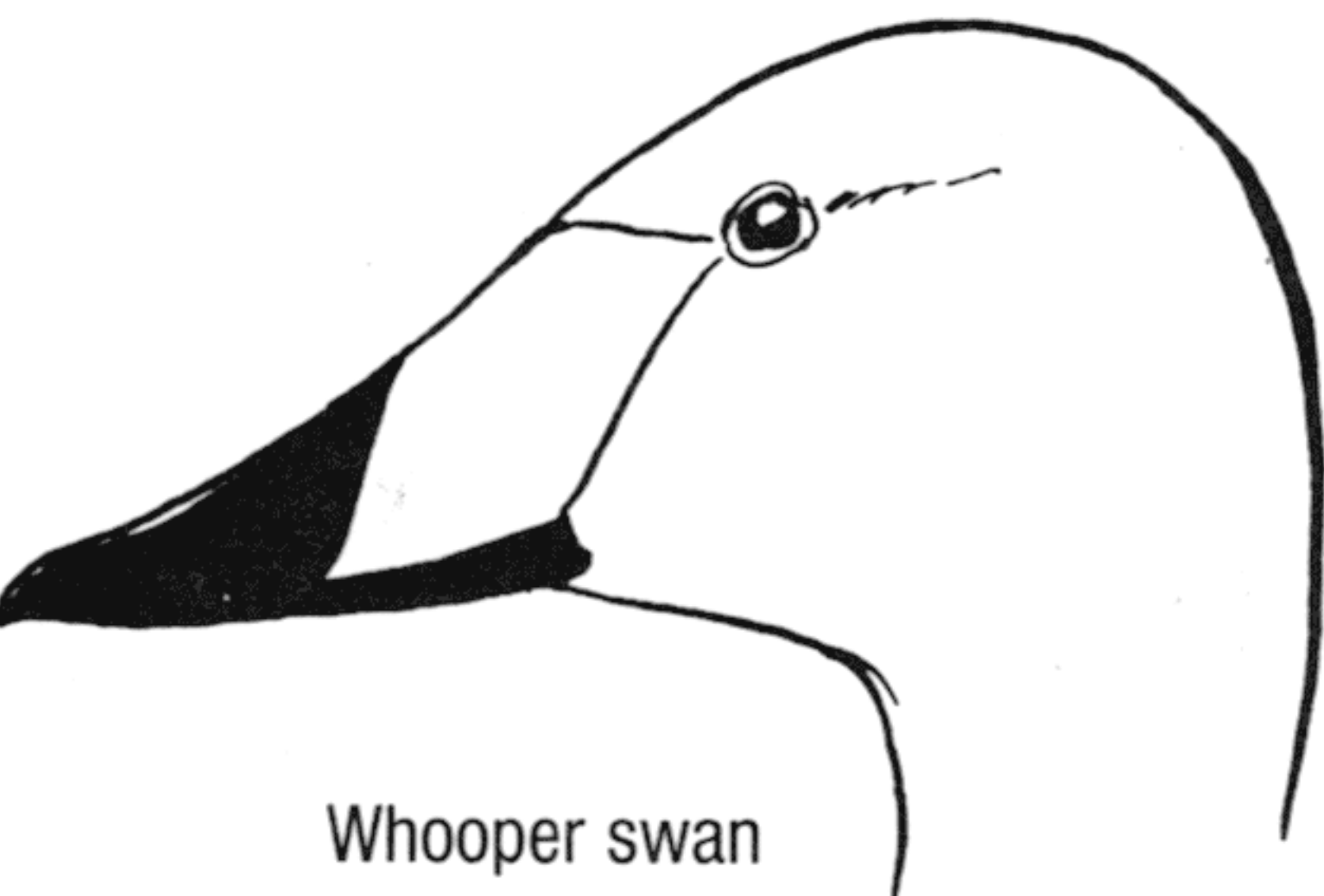
1/3 of the body obscured by water.



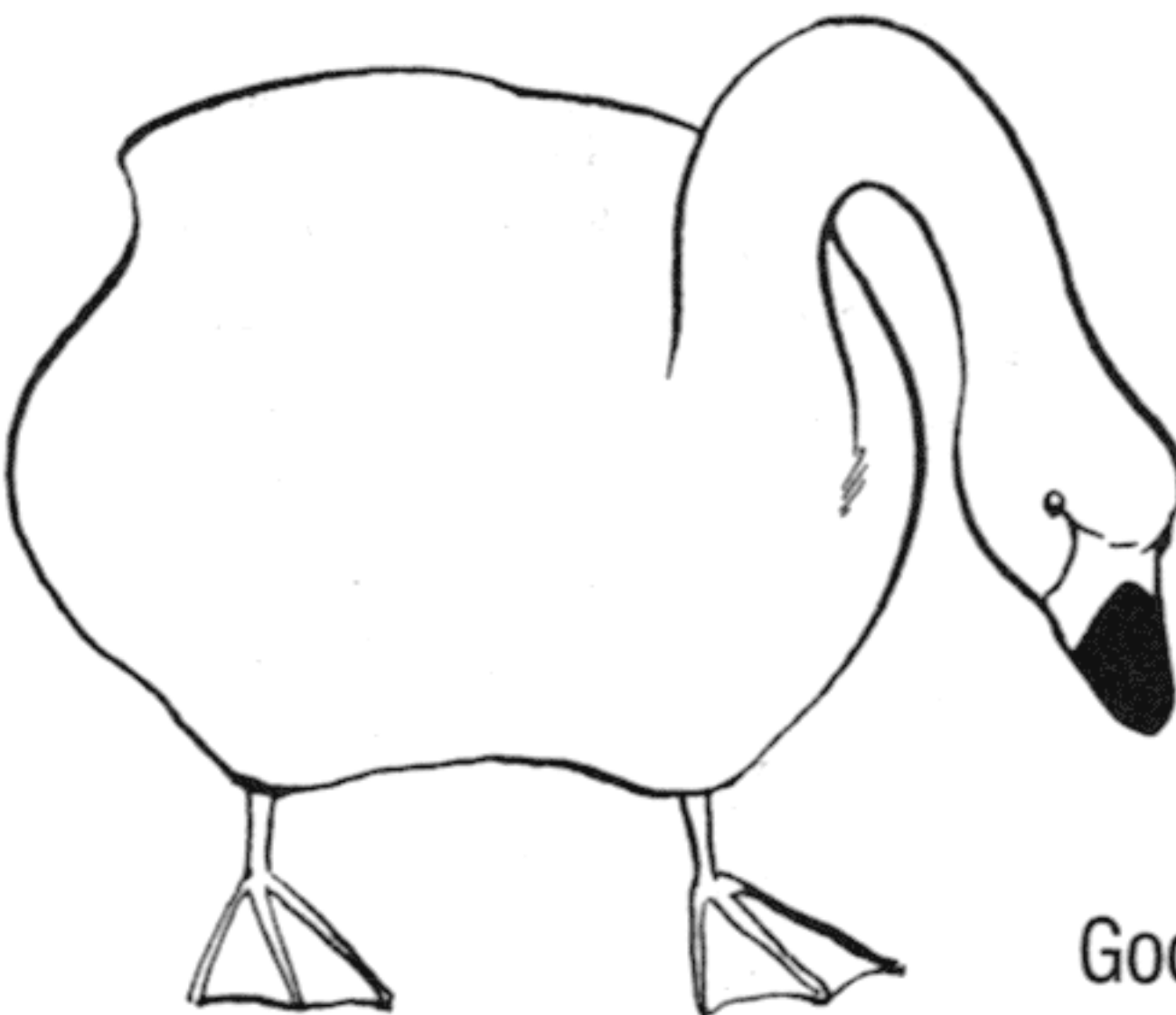
Land fowl

Waterfowl

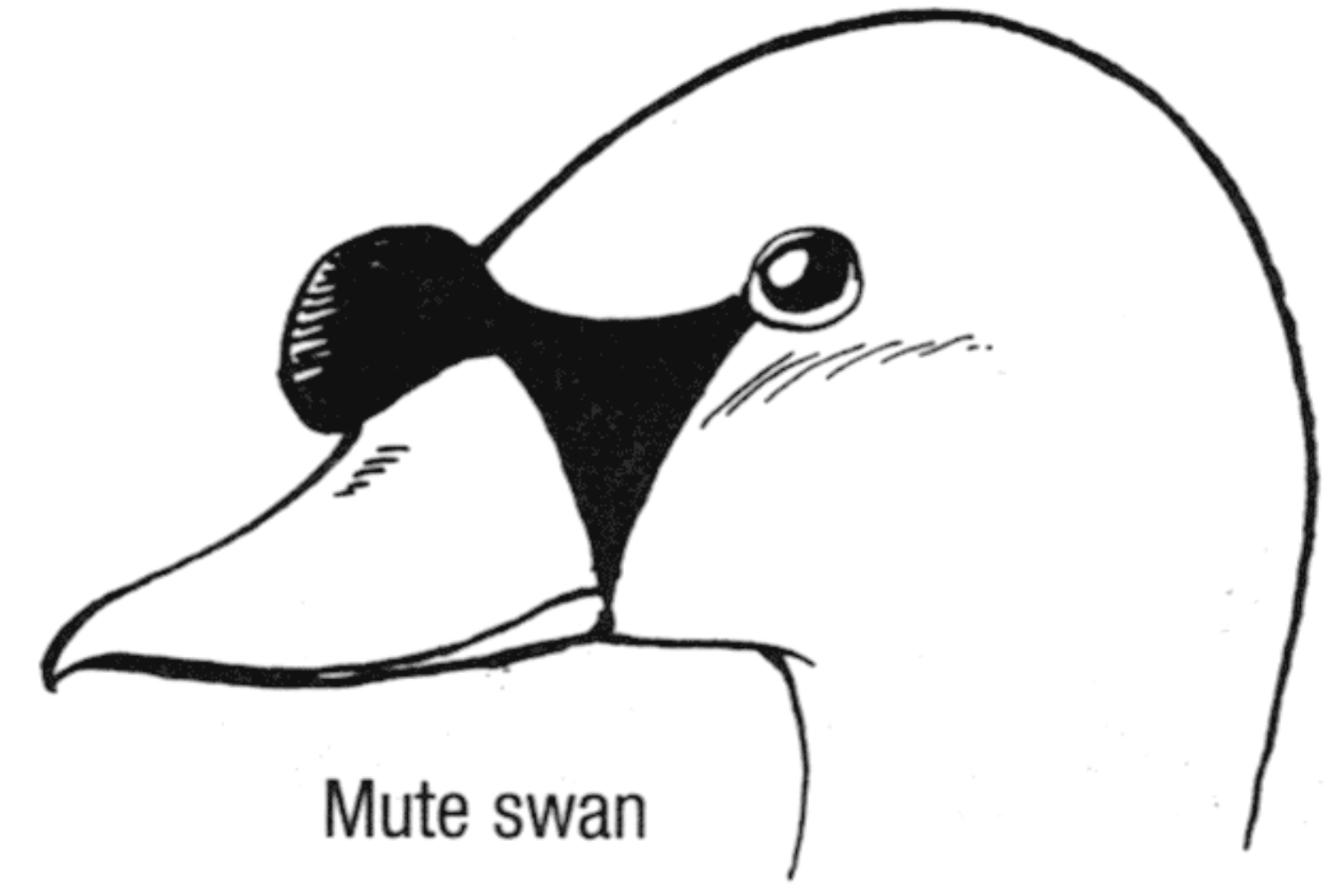
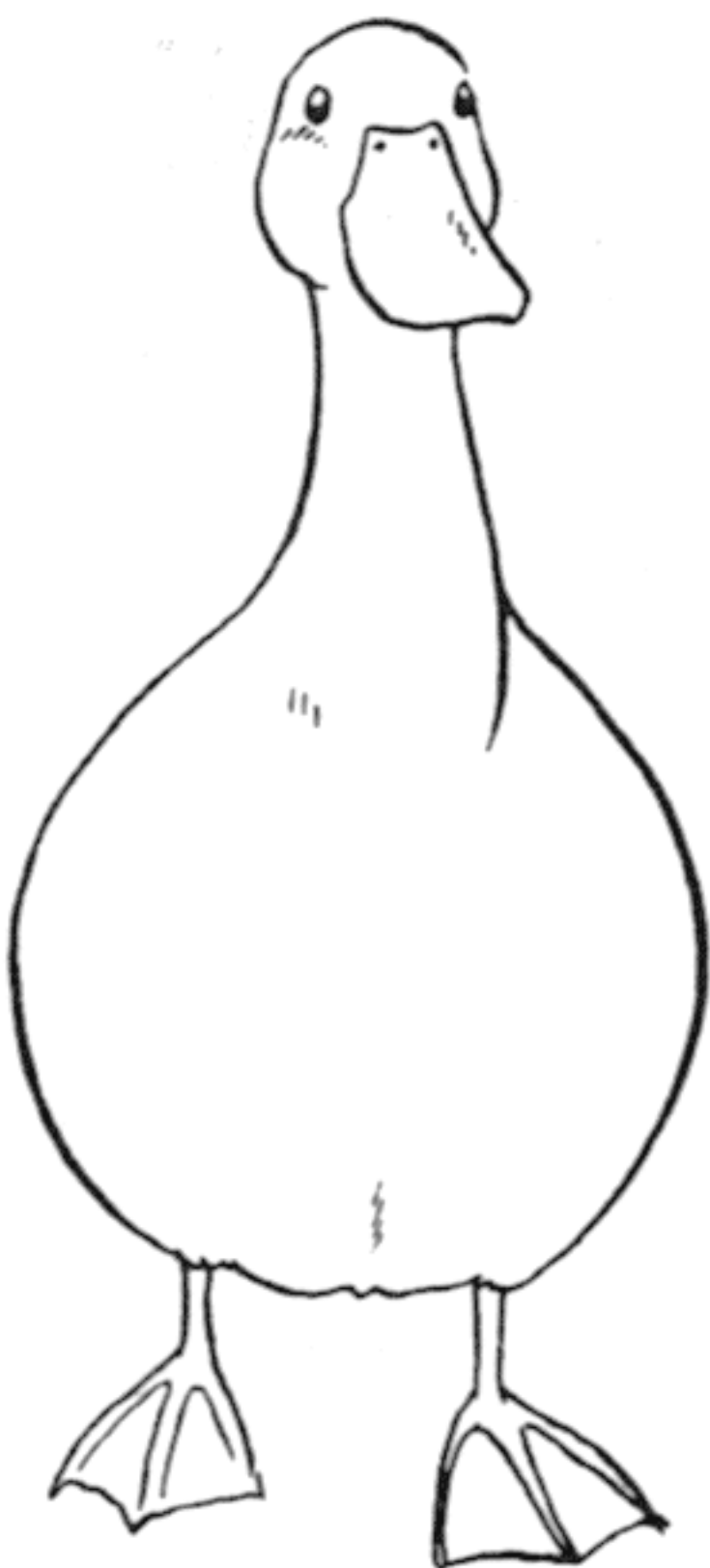
The legs of a common land bird attaches obliquely to the body. The head is thrust forward, and the figure overall has a forward leaning appearance. In contrast, water birds stand straight with their heads slightly shifted to the rear.



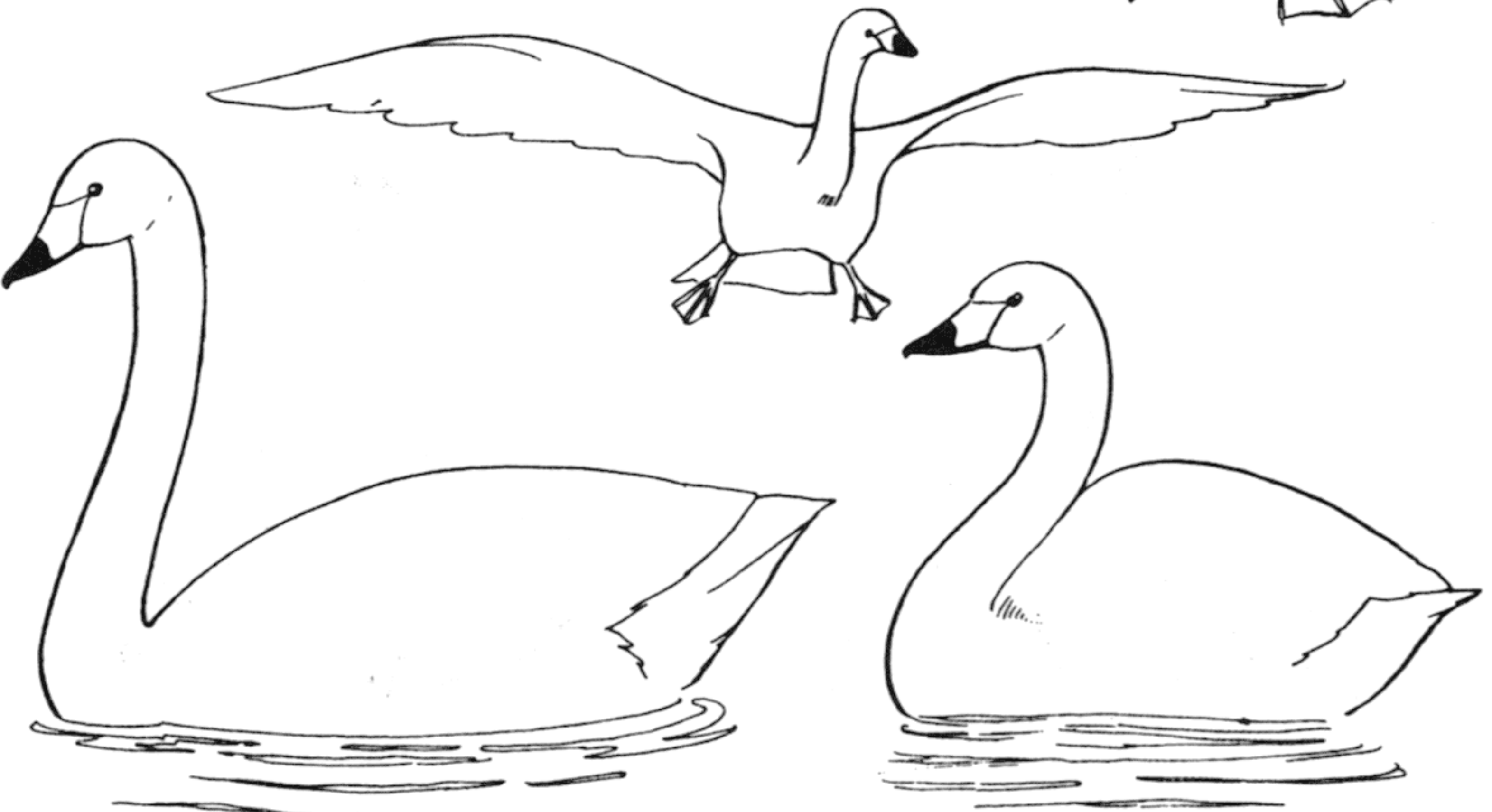
Whooper swan



Goose



Mute swan



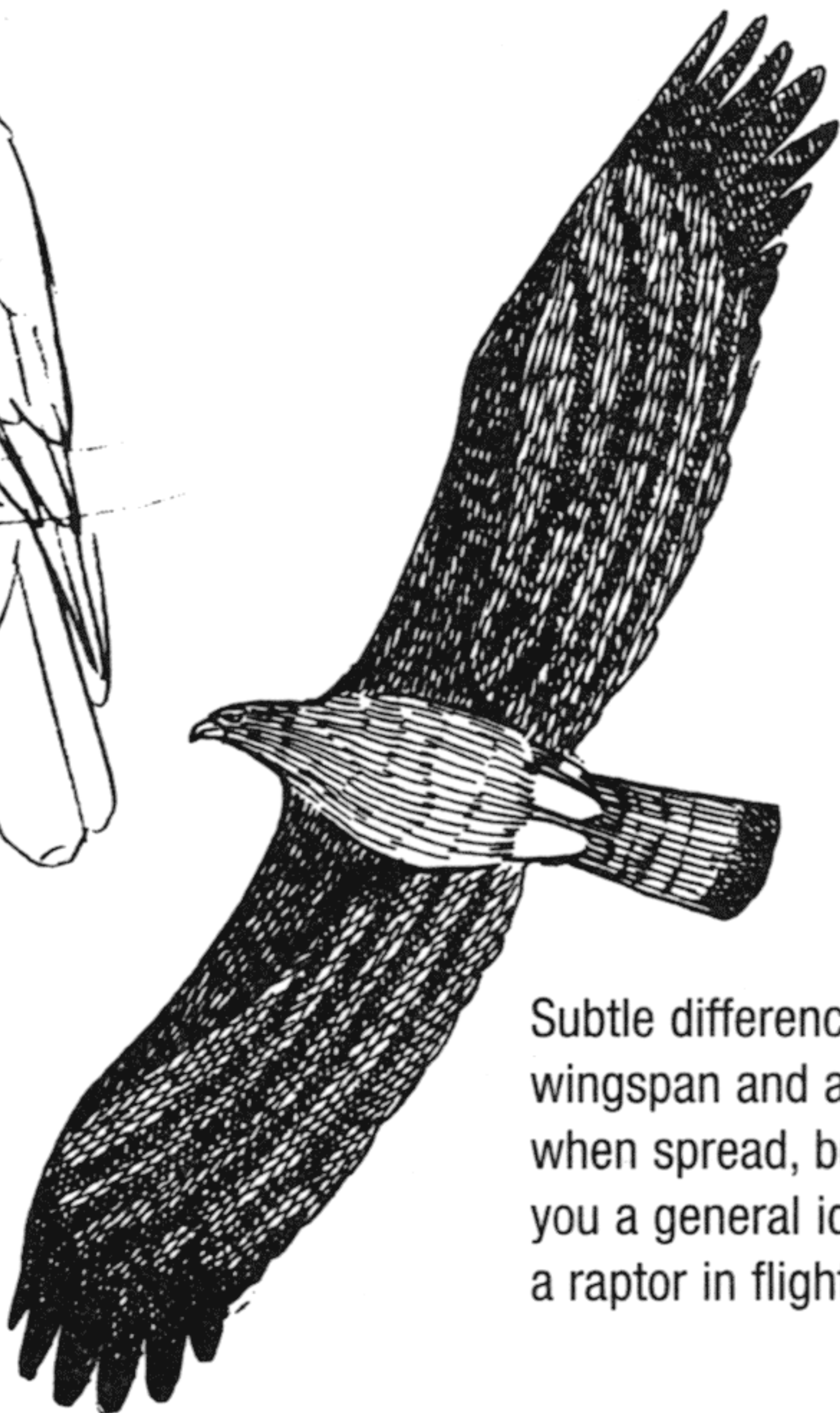
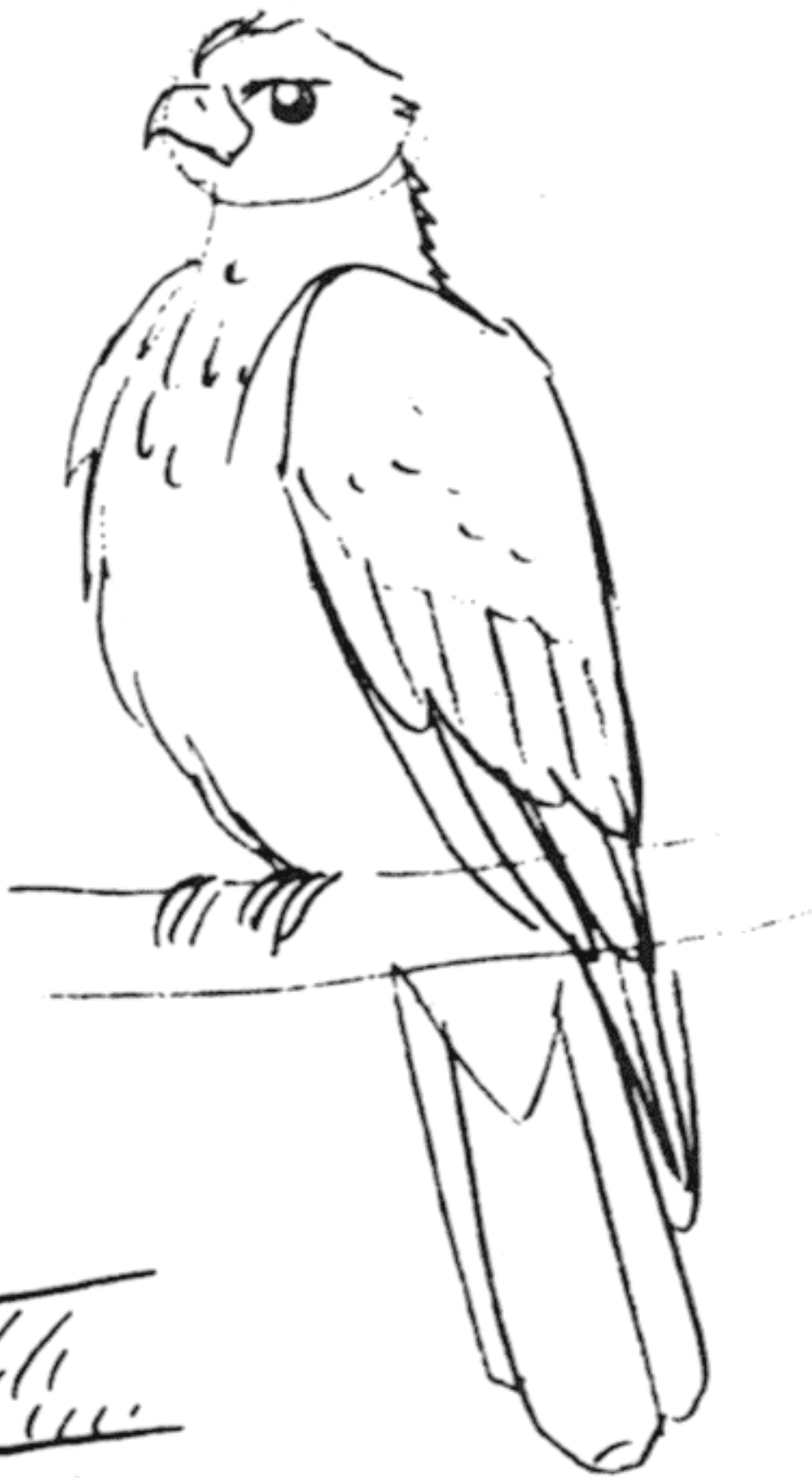


Raptors

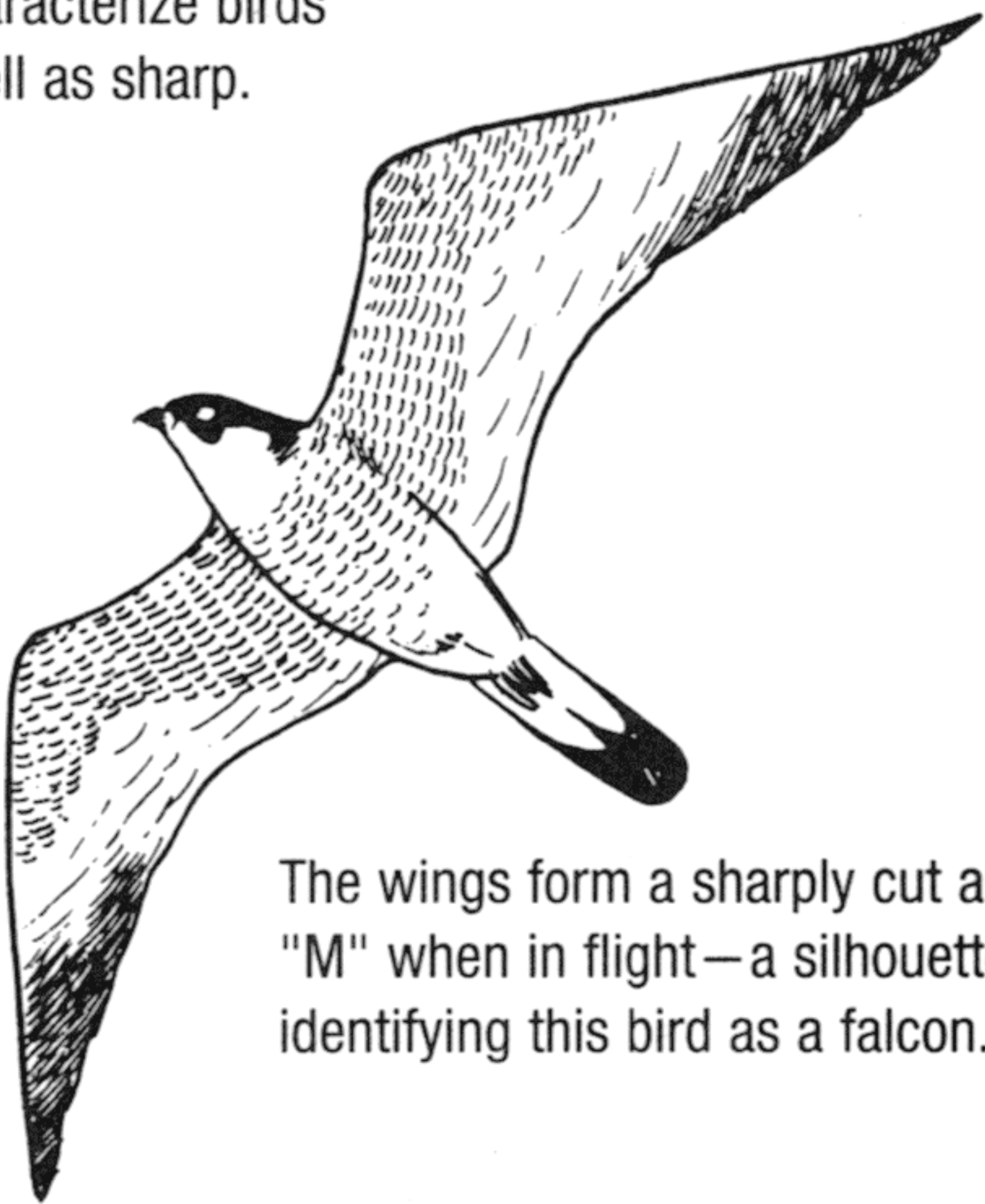
Thick necks, puffed up breasts, wide shoulders, and broad wingspans characterize birds of prey. Draw these birds with hooked beaks that are likewise thick as well as sharp.



Kite



Subtle differences exist in the wingspan and appearance of the wings when spread, but this image still gives you a general idea of the silhouette of a raptor in flight.



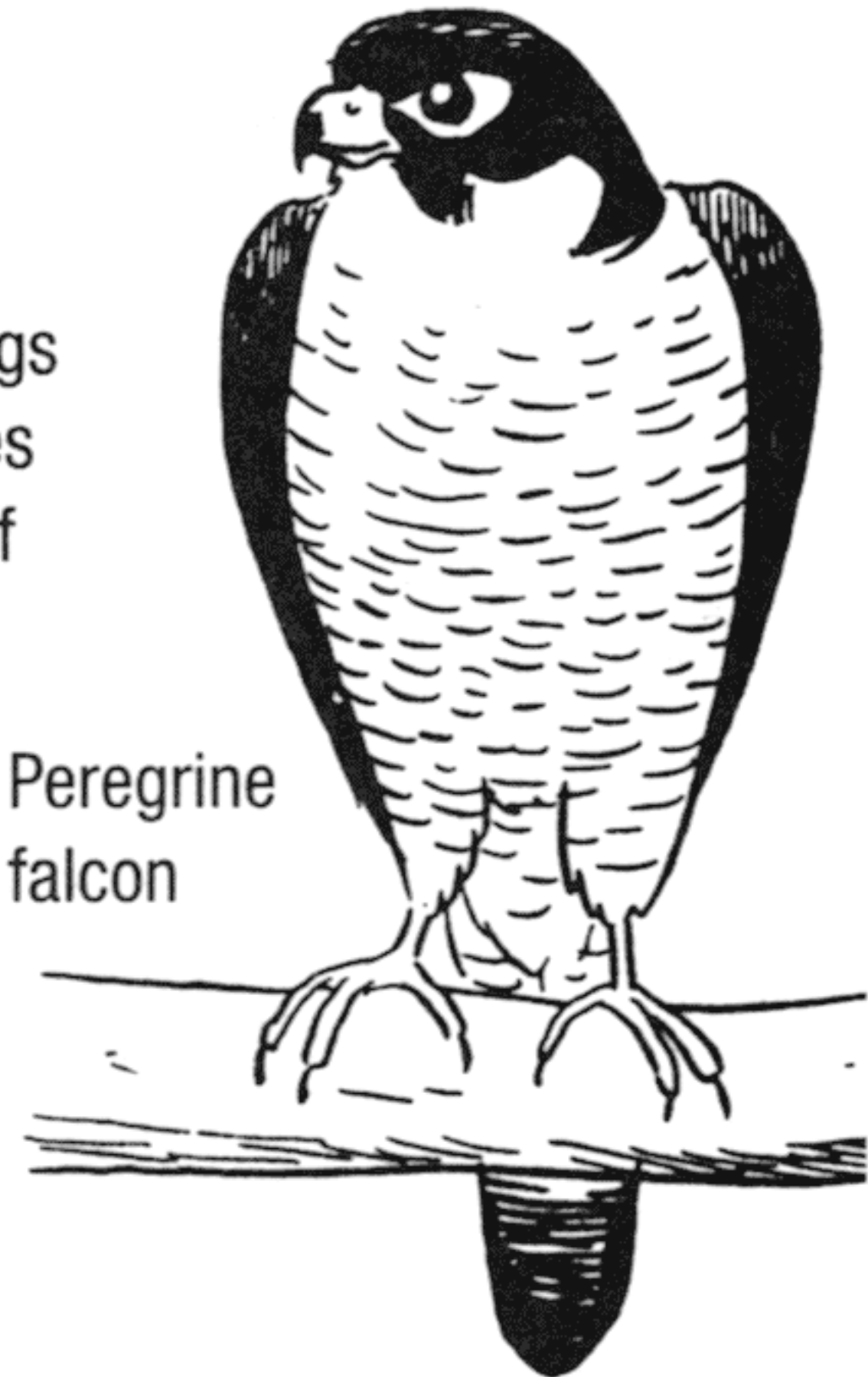
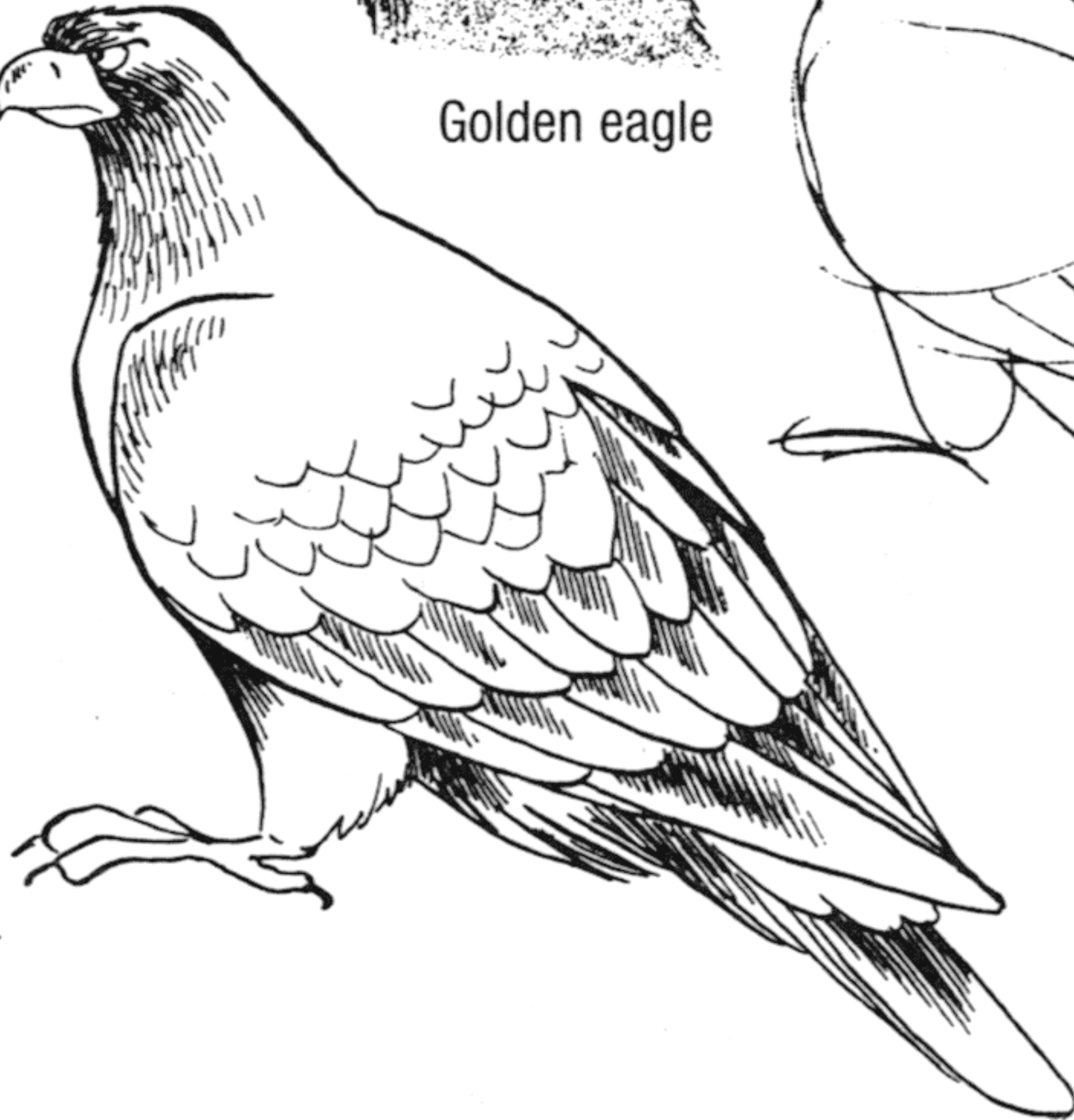
The wings form a sharply cut an "M" when in flight—a silhouette identifying this bird as a falcon.



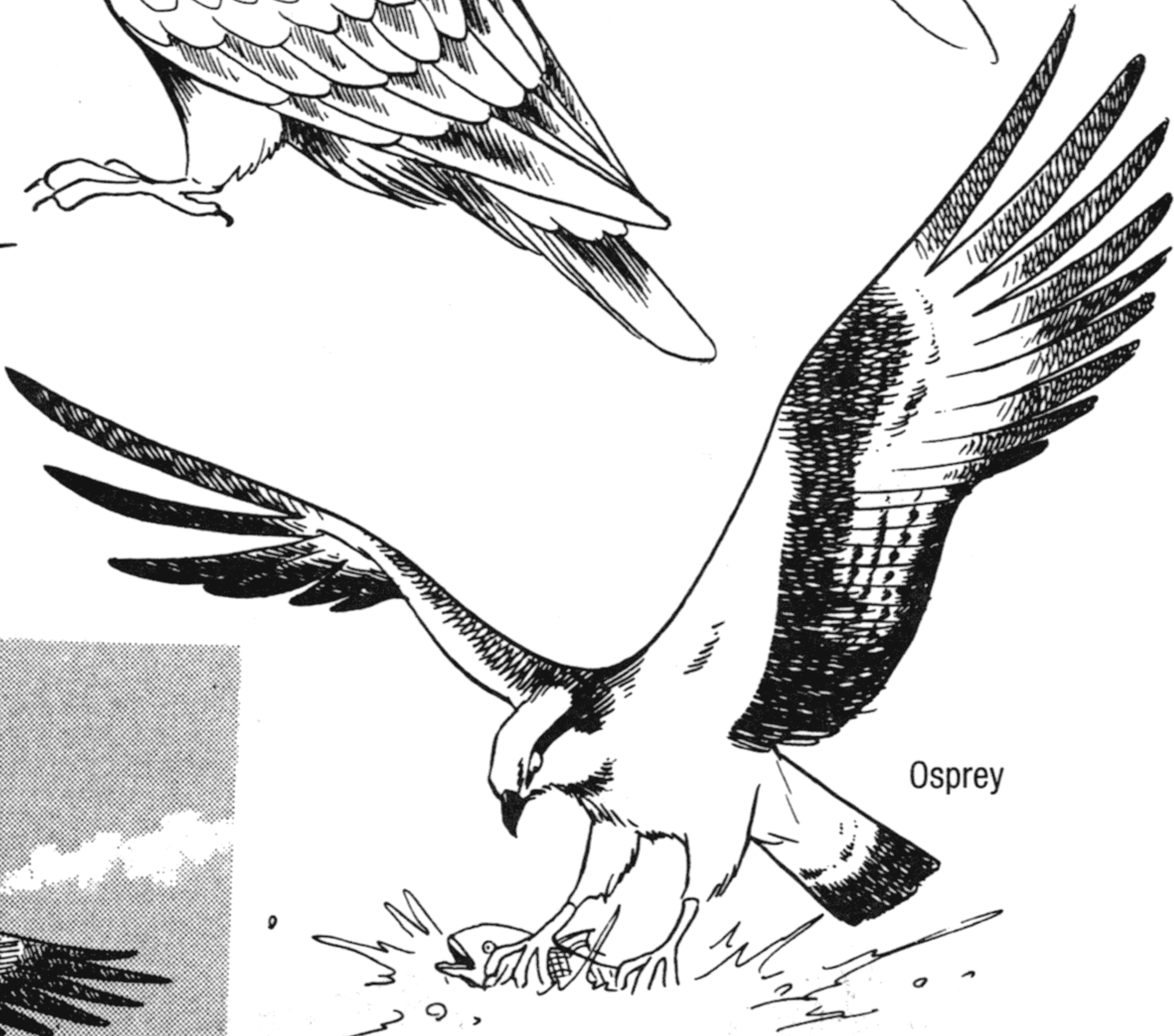
The Steller's sea eagle has a head-to-body ratio of 1:6 with the beak occupying about half of the head.



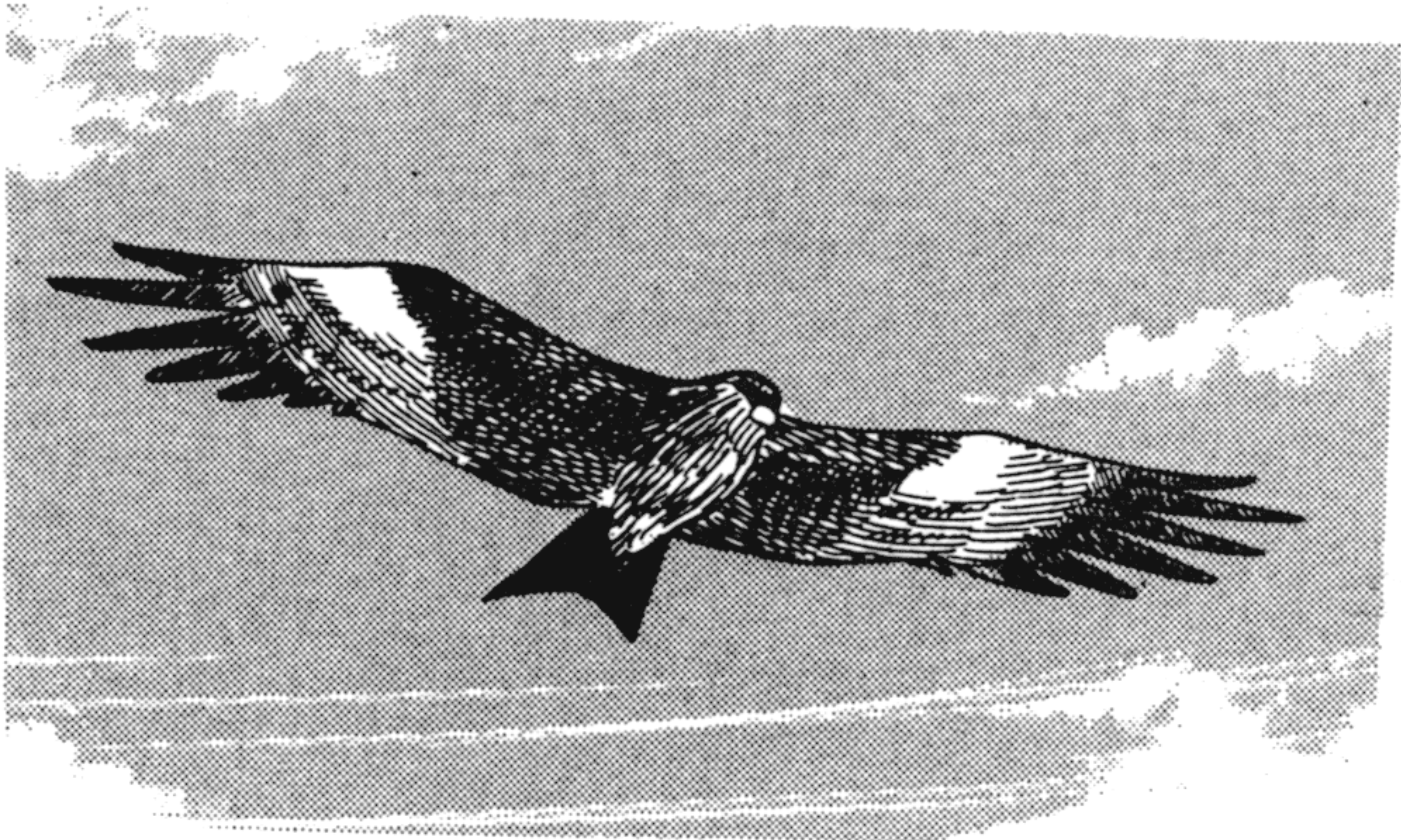
Golden eagle



Peregrine falcon



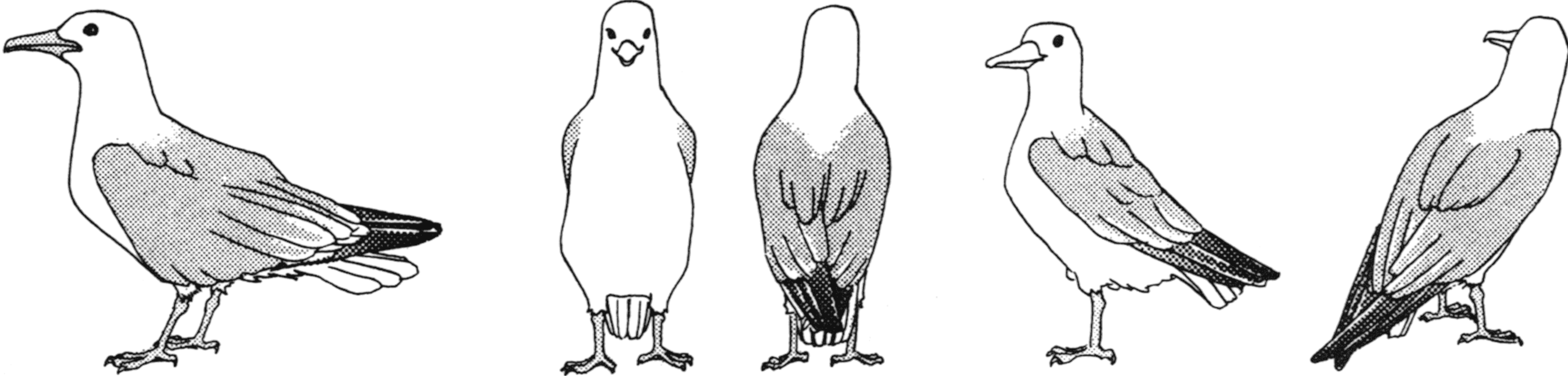
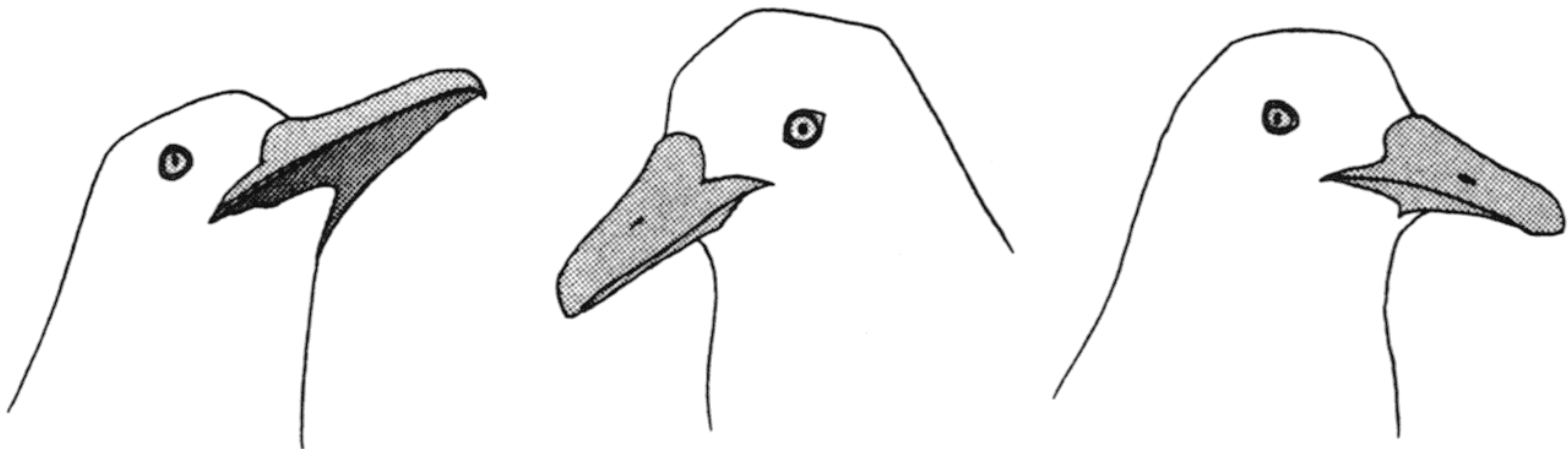
Osprey



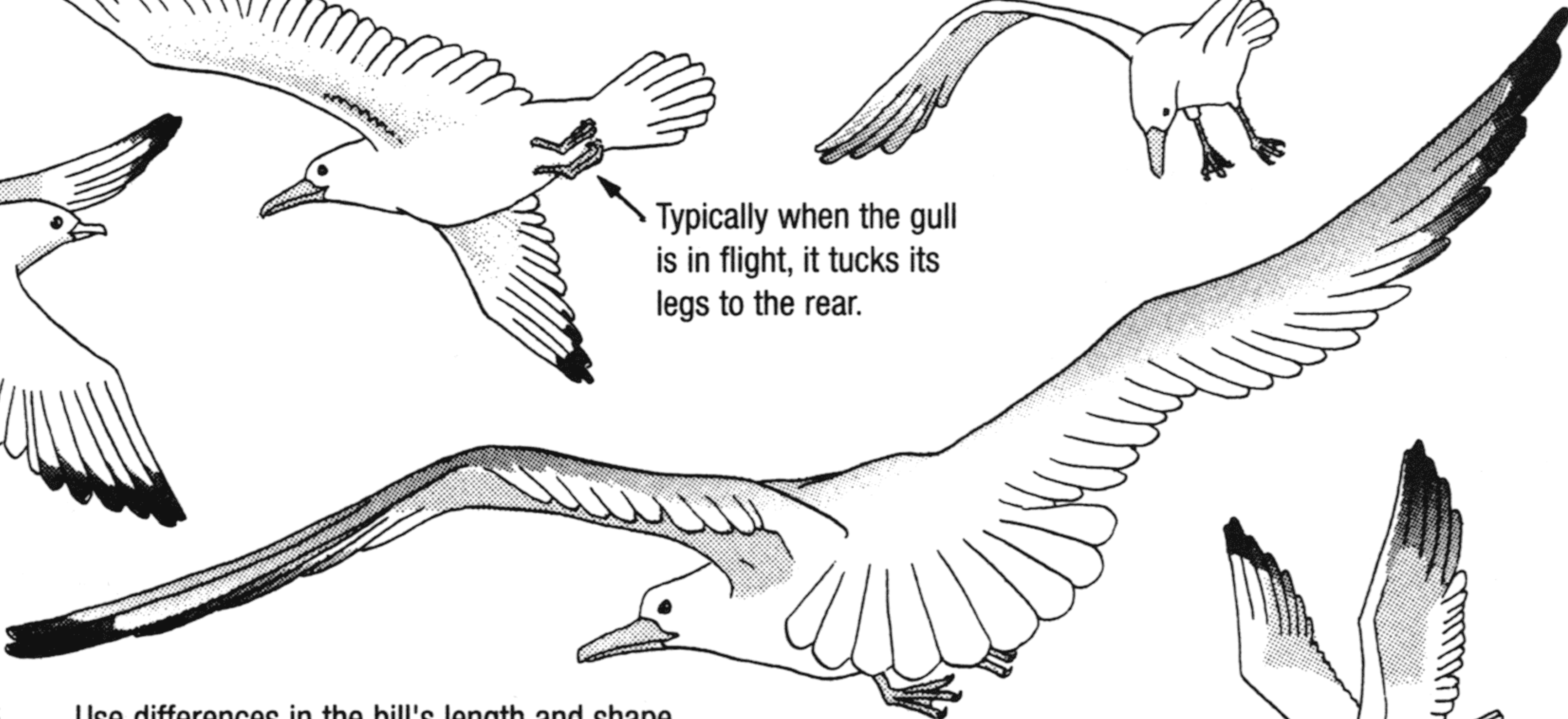
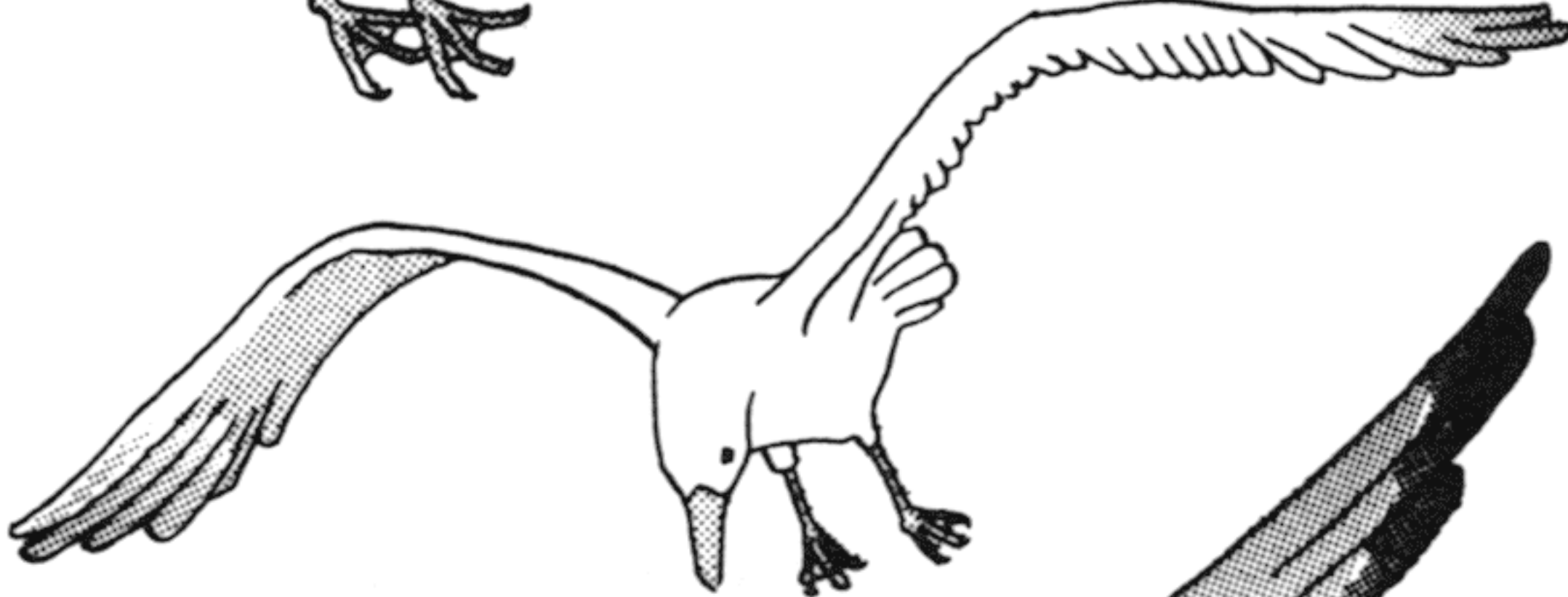
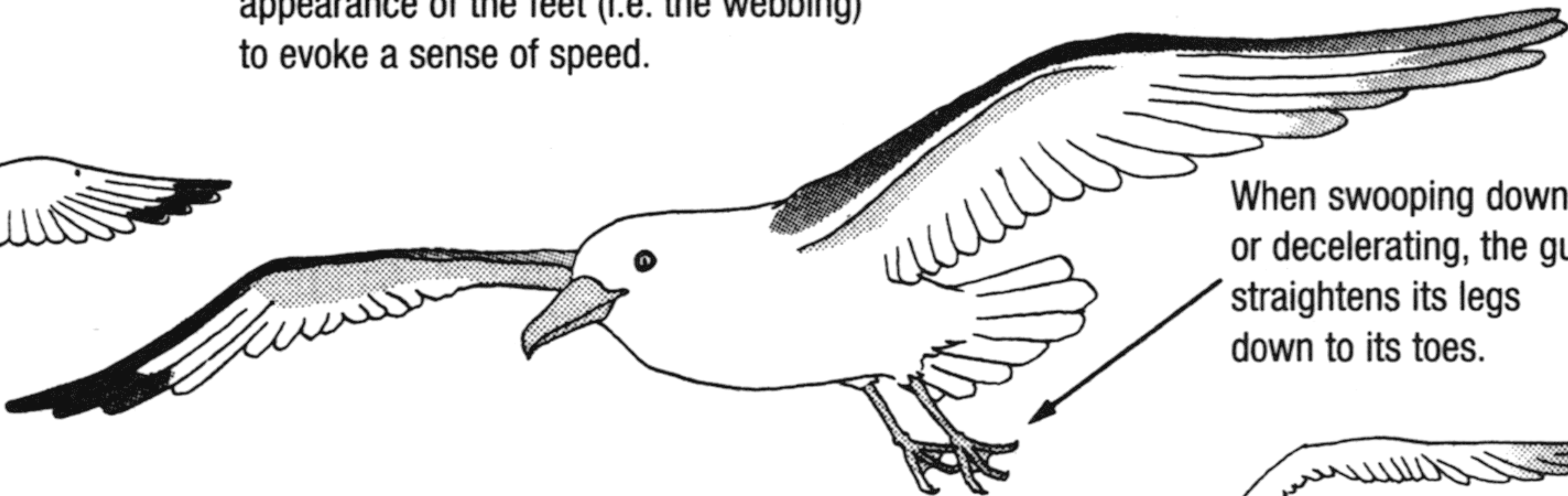


Seagulls

The gull's long bill should be approximately the same length as its head. Also, adding tiny pupils will help to make your gull convincing.



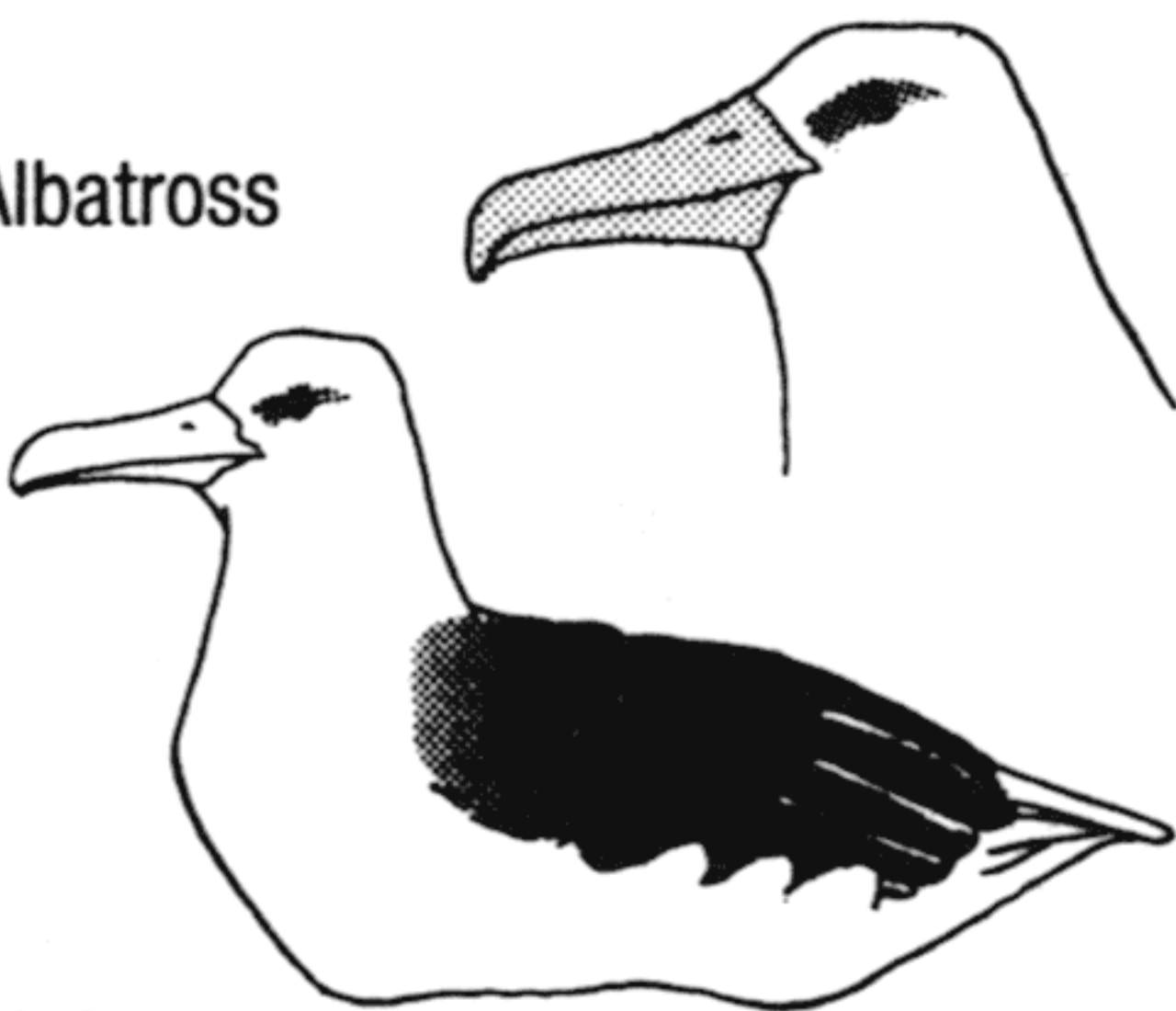
When drawing a gull flying, use the appearance of the feet (i.e. the webbing) to evoke a sense of speed.



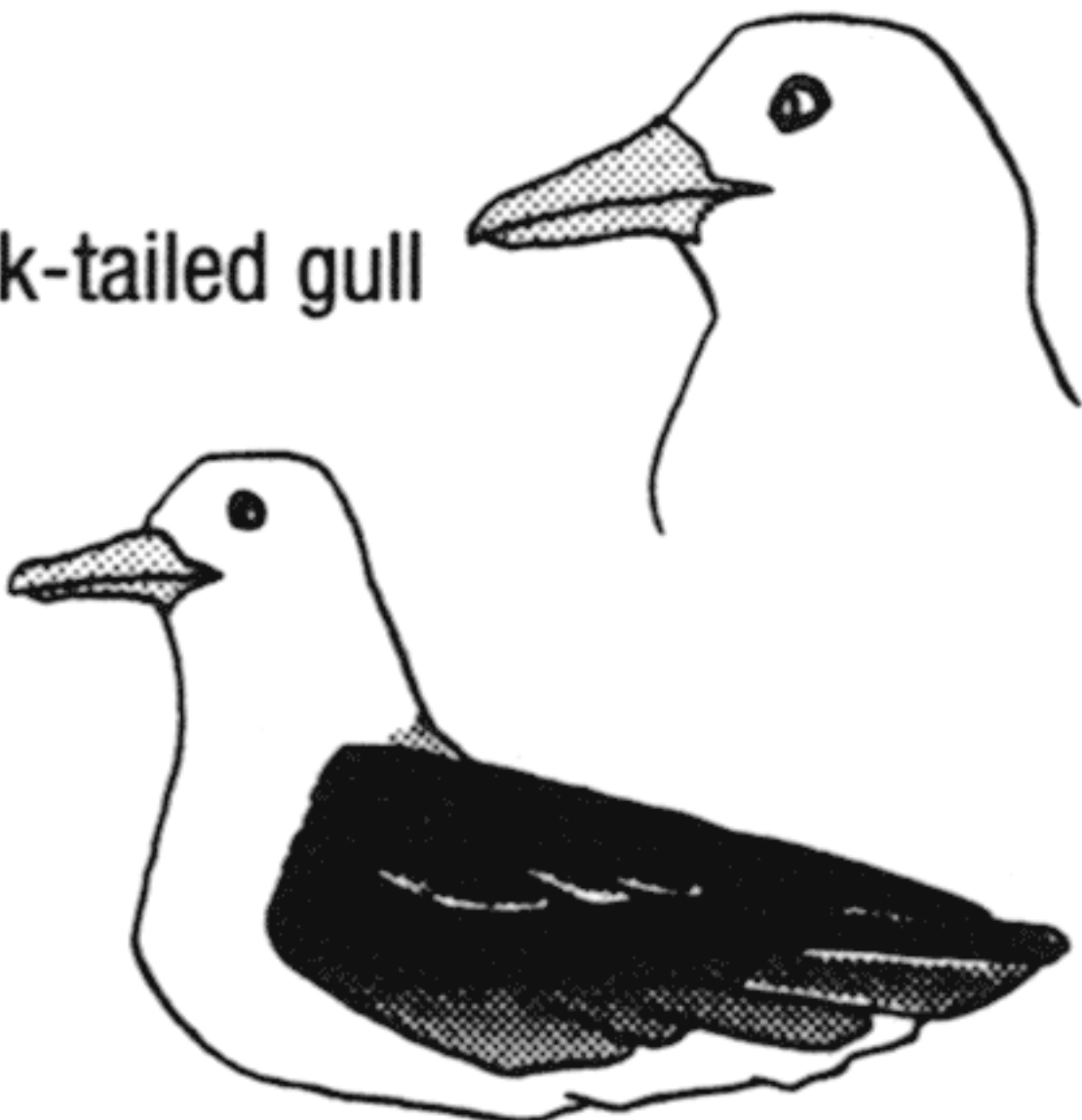
Common Gulls

Use differences in the bill's length and shape, and the plumage to distinguish between the different species.

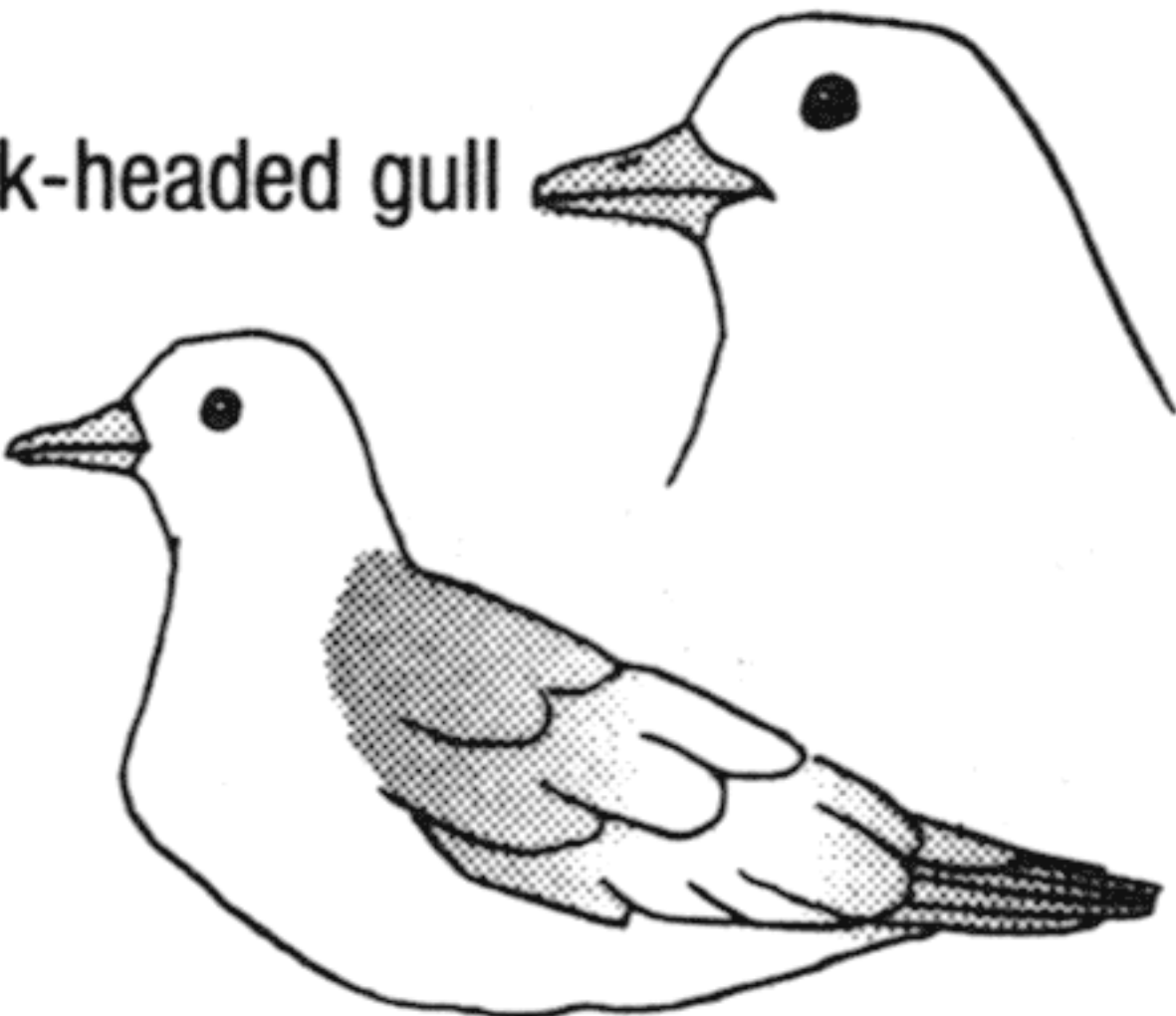
Albatross



Black-tailed gull



Black-headed gull



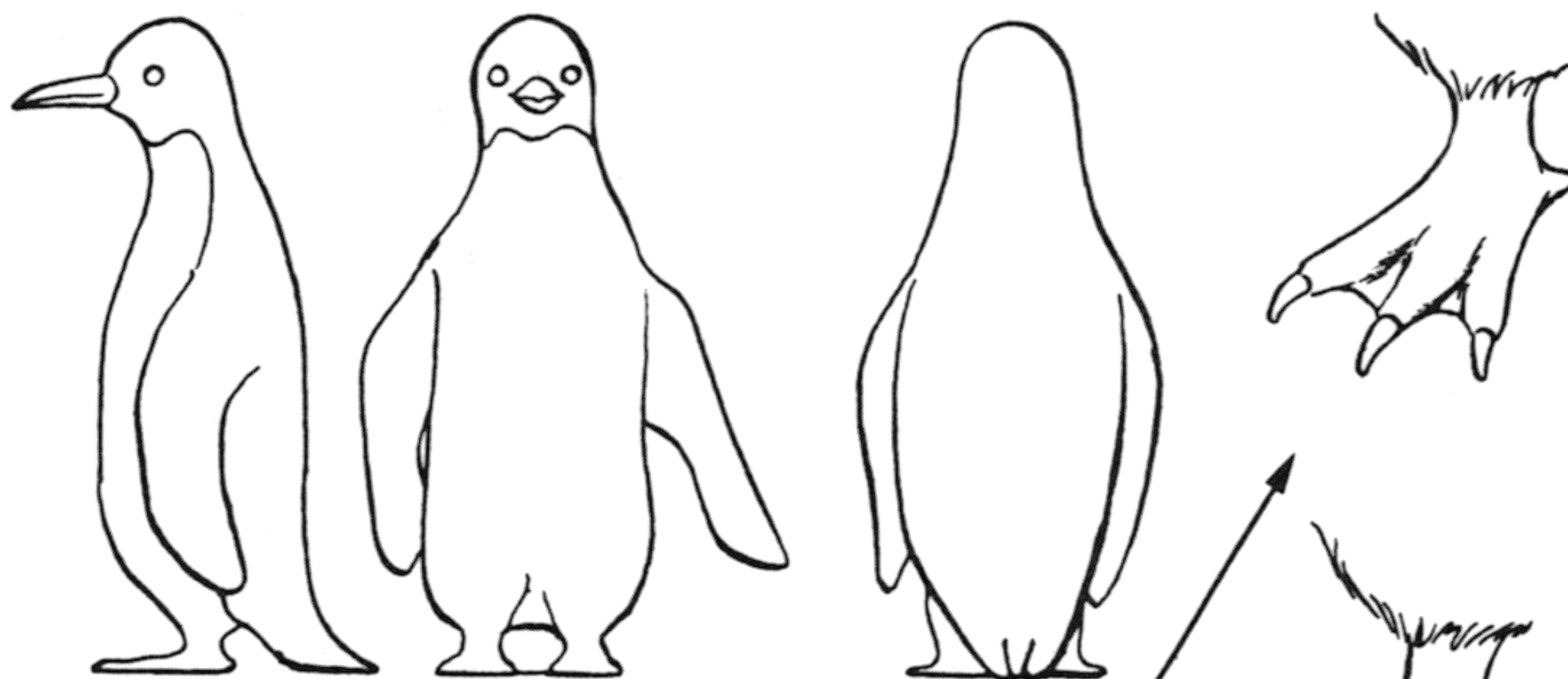


# Penguins

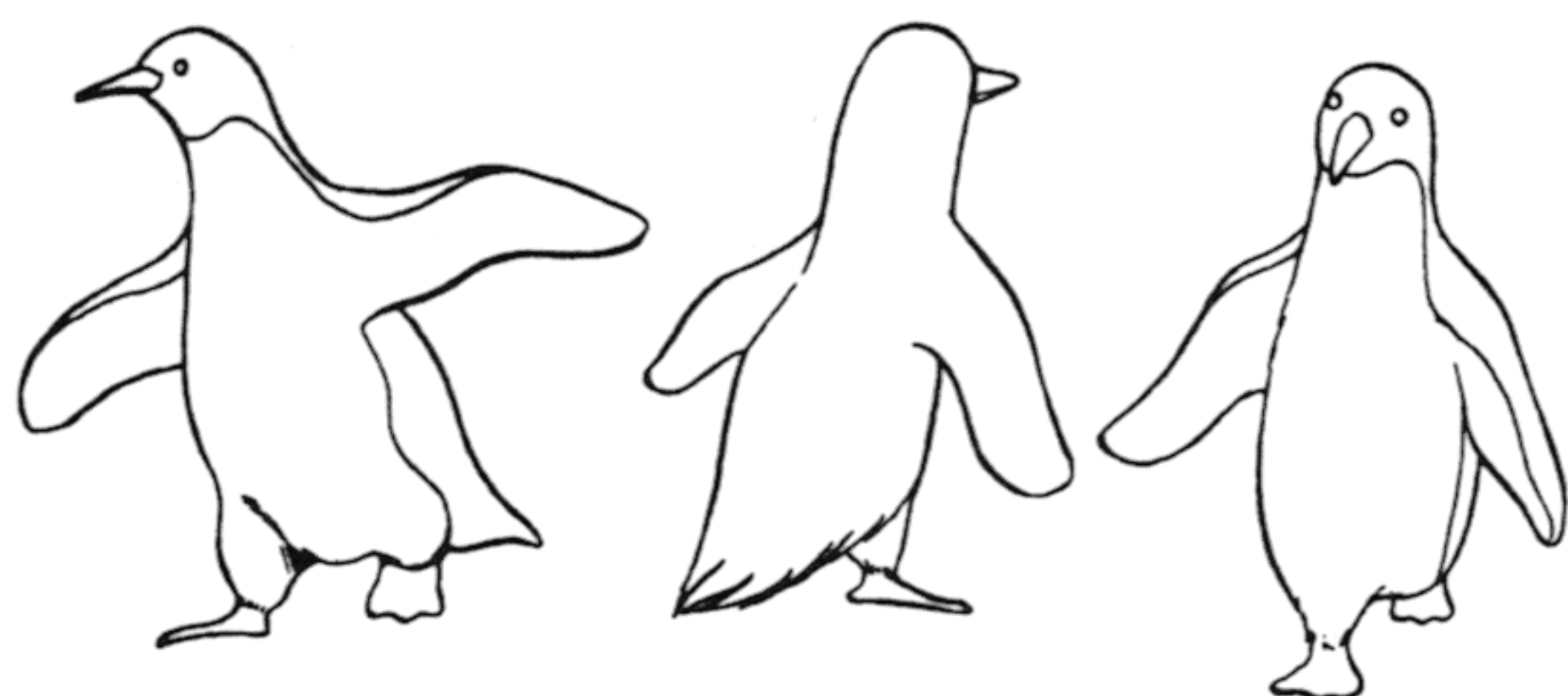
All penguins have black covering them from the head to back and white bellies.



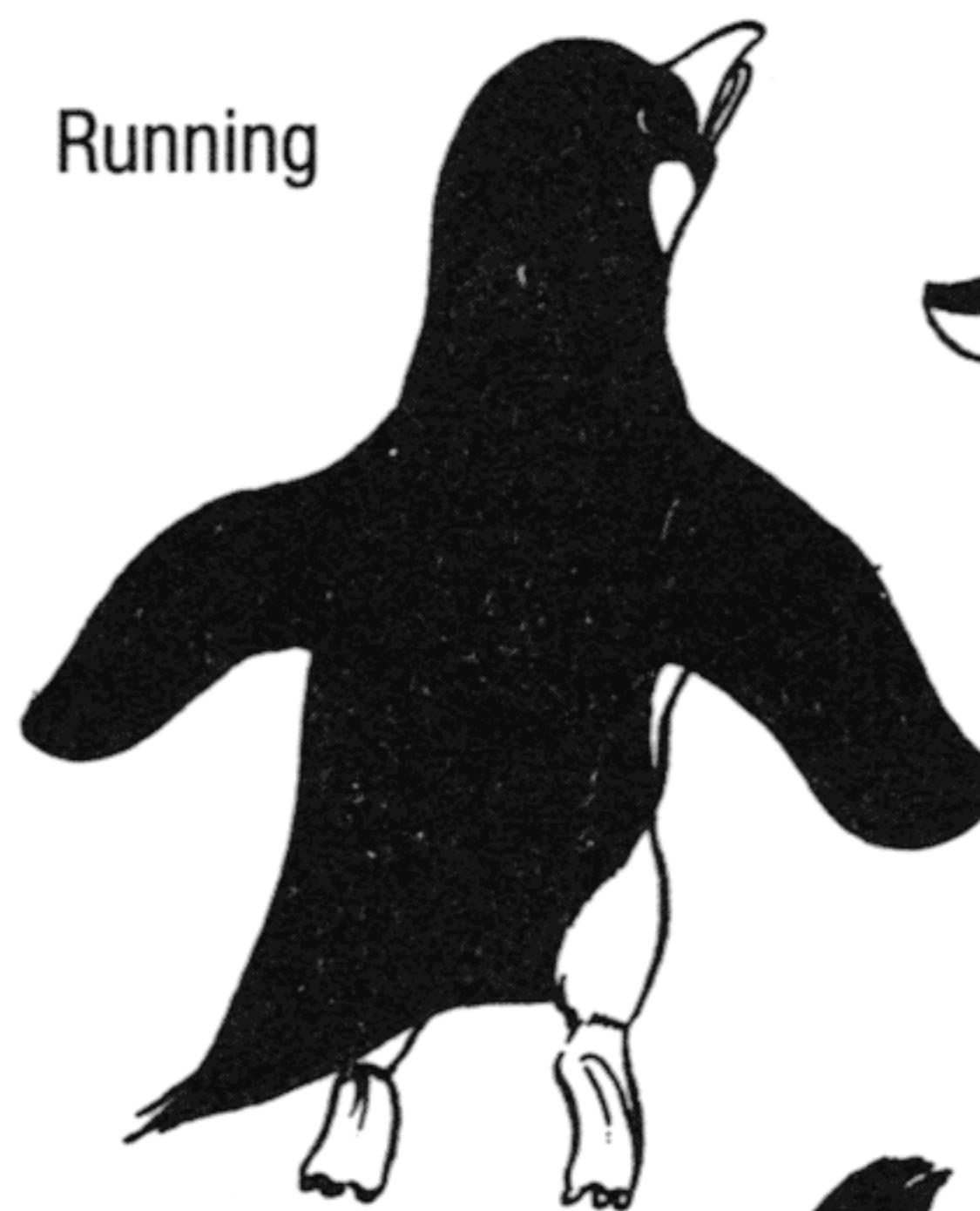
Like other waterfowl, the bill is the same length as the head.



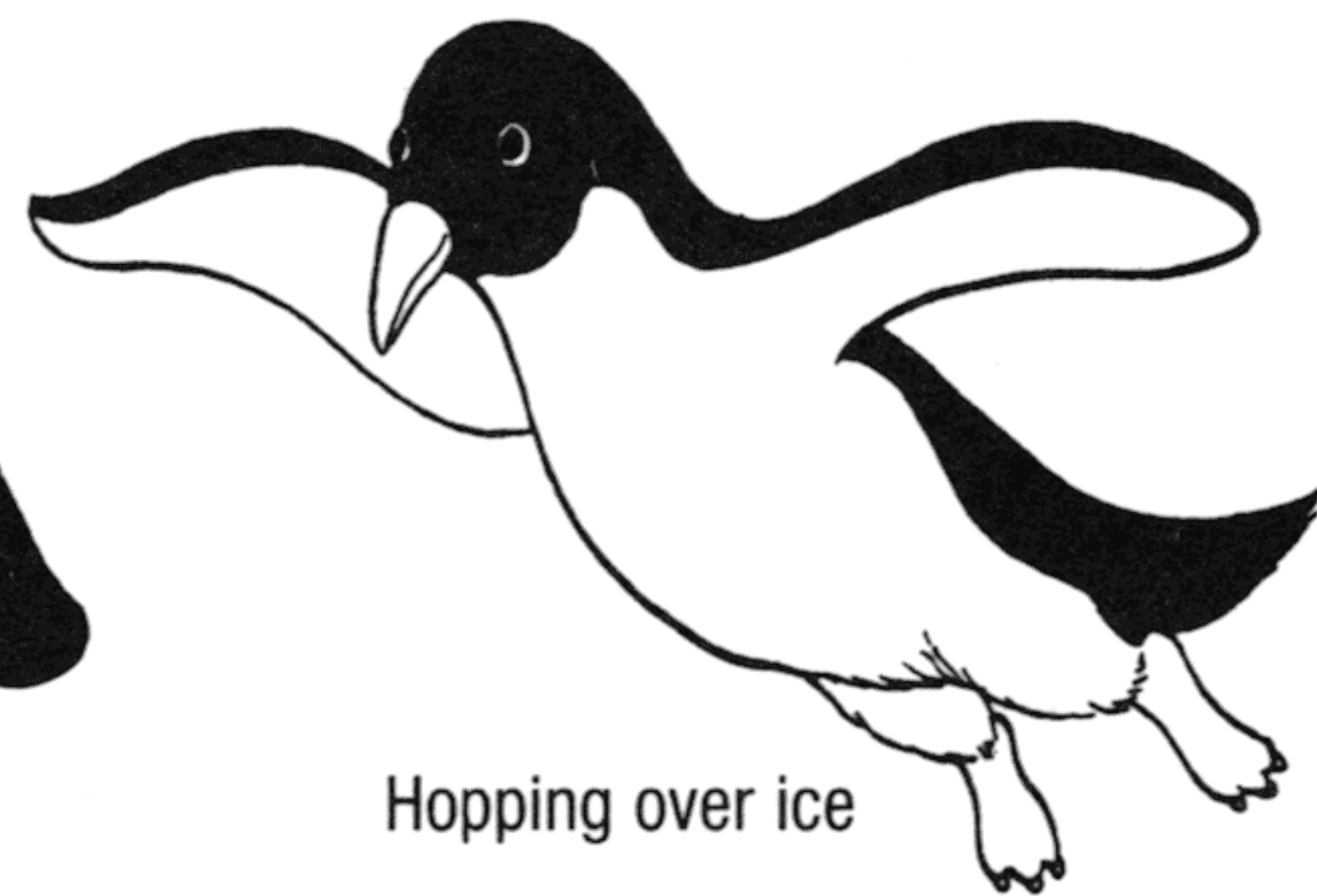
Like finches, penguins have three toes facing forward and one facing back on each foot.



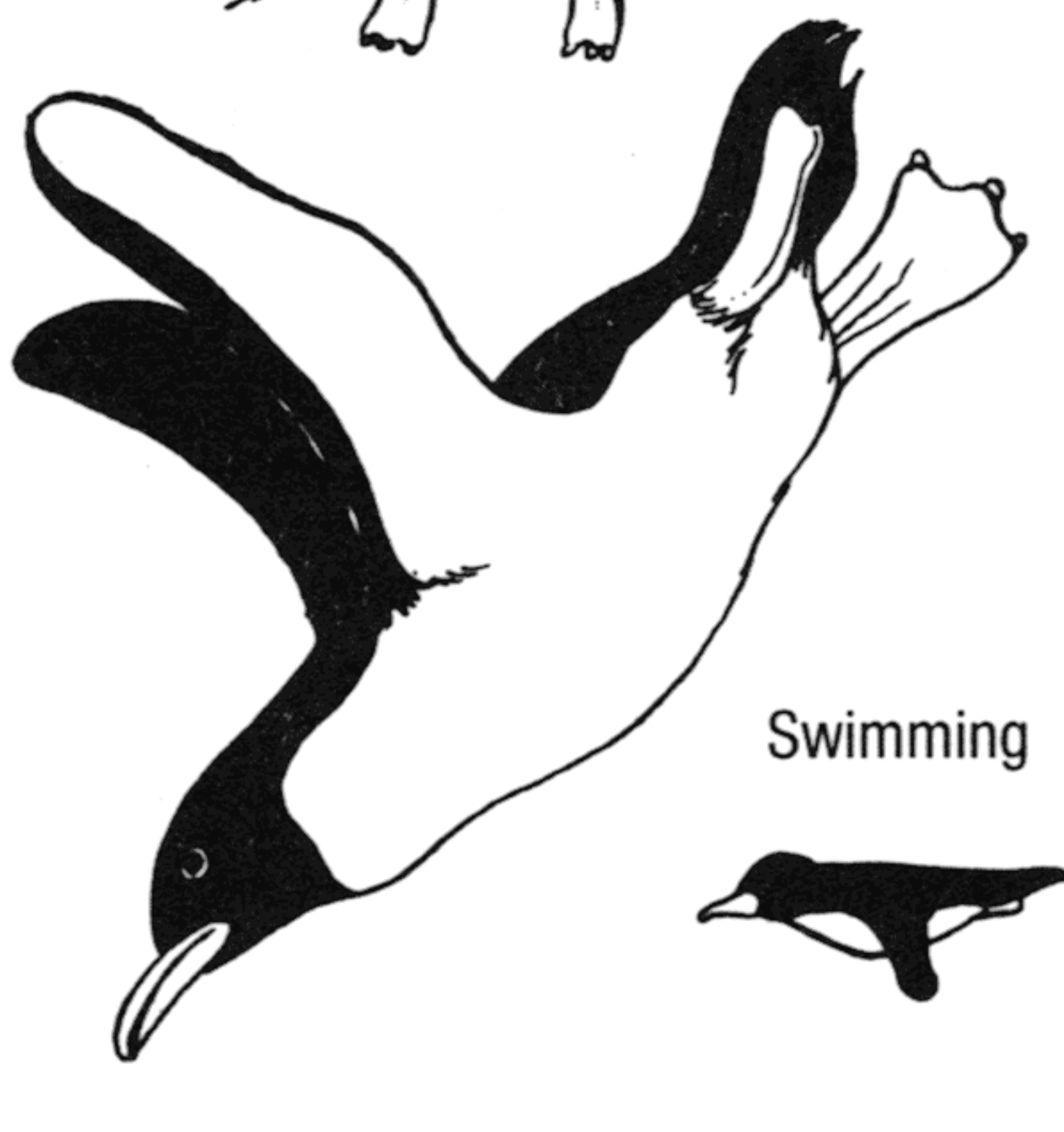
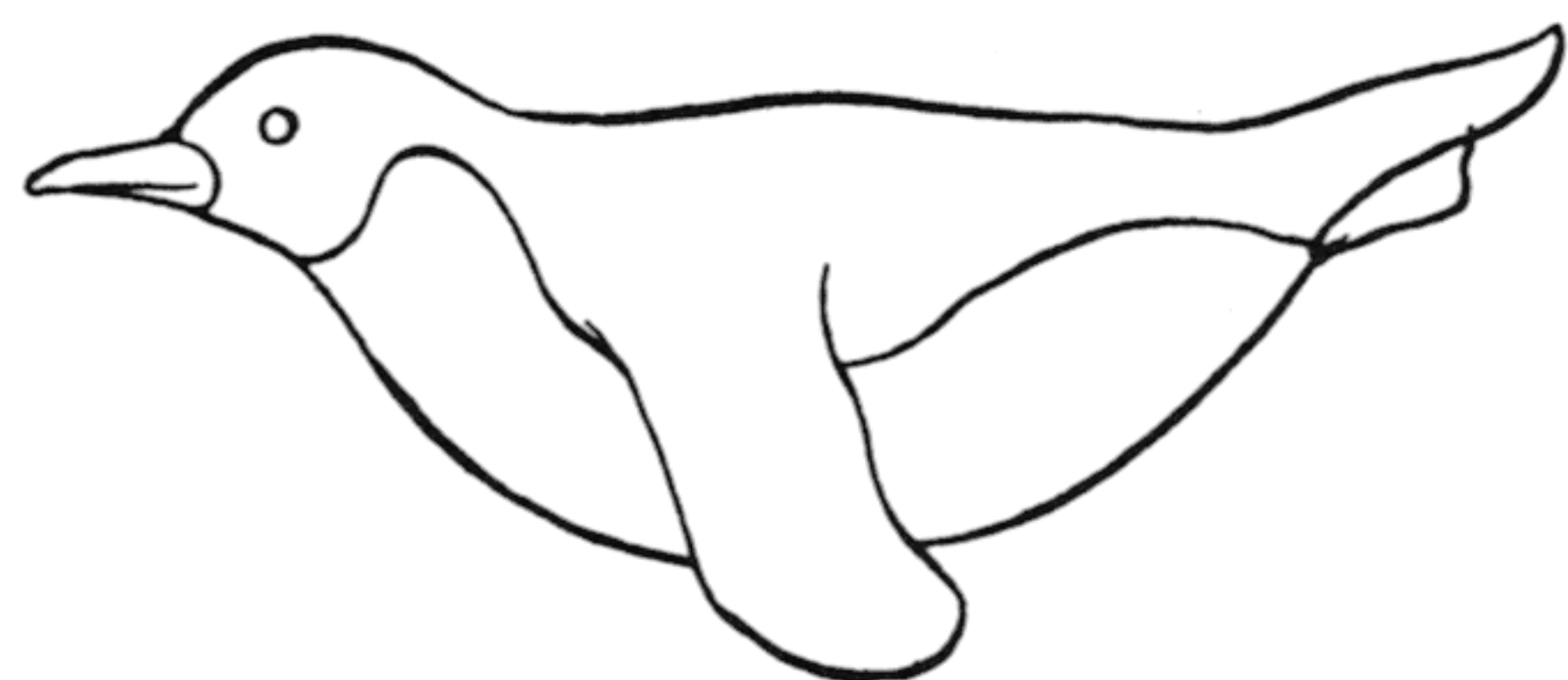
Running



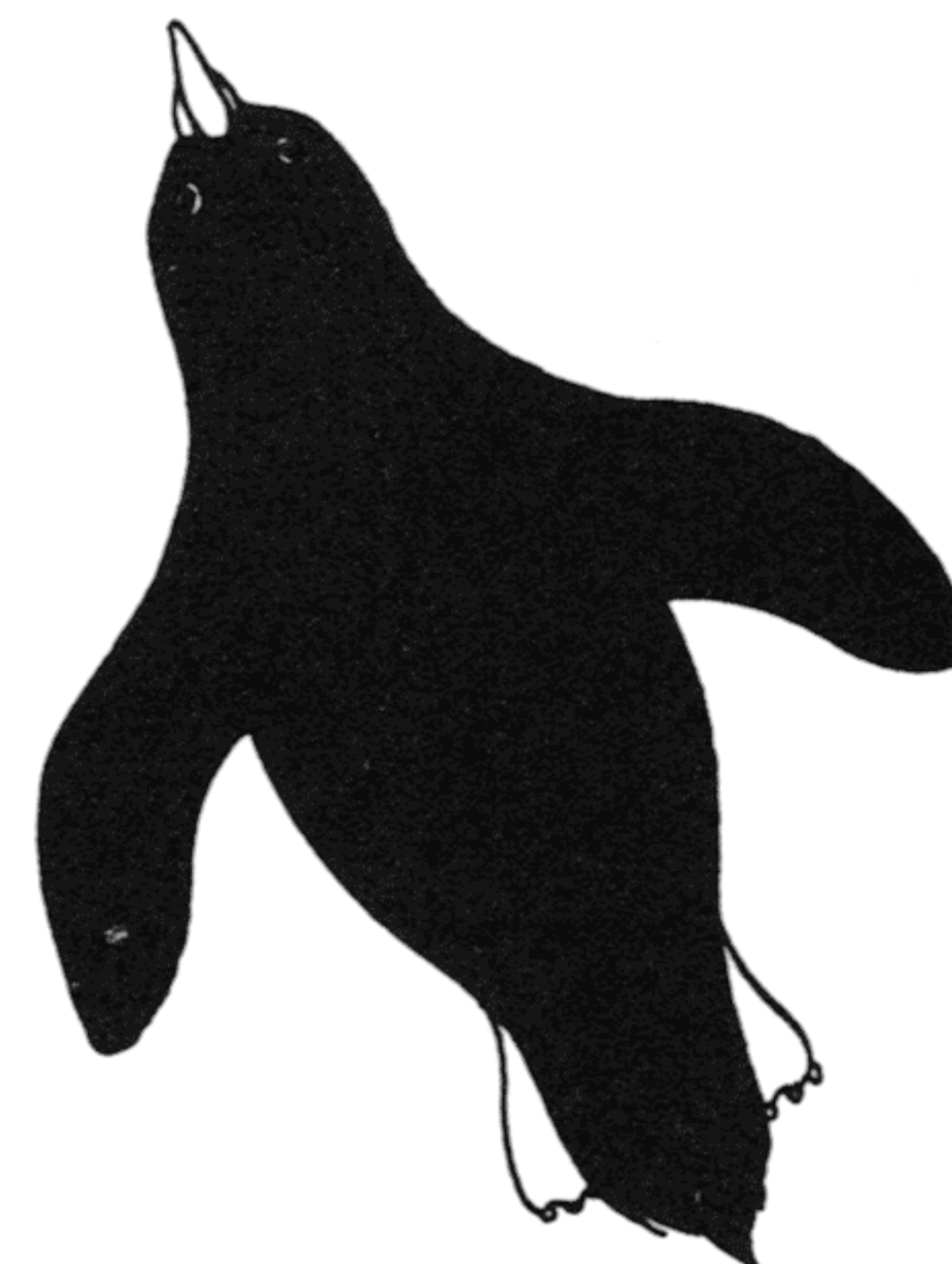
Hopping over ice



In the water



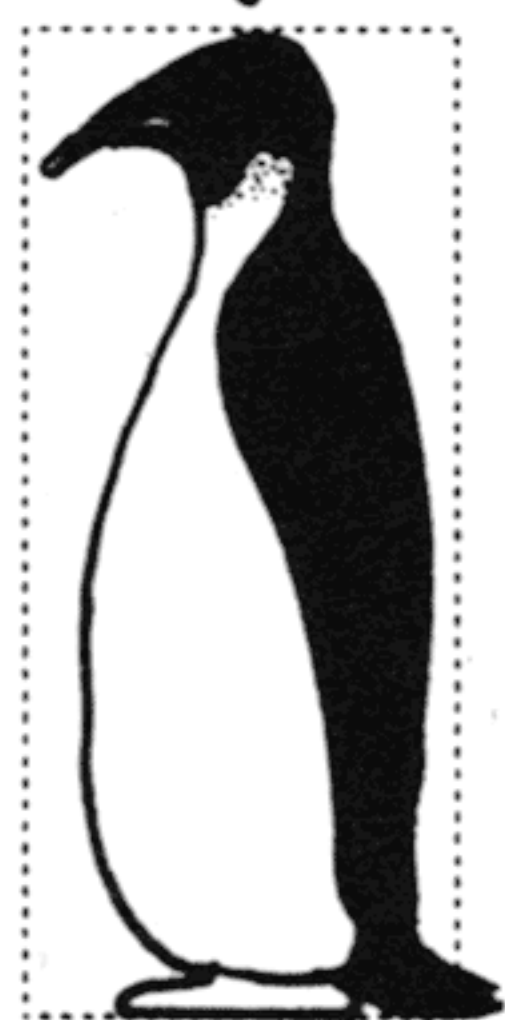
Swimming



## Assorted Penguins

Note the coloration as well as the length and size of the bills.

Emperor penguin



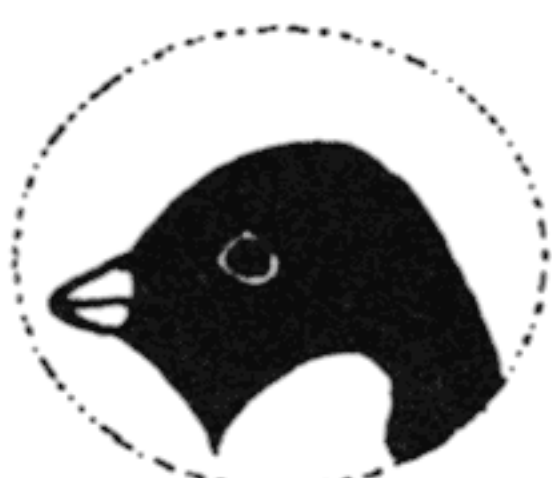
100 to 130 cm  
(39" to 50 11/16")

King penguin



85 to 95 cm  
(33 1/2" to 37 3/8")

Adelie penguin



70 cm (27 1/2")

Chinstrap penguin



70 to 76 cm  
(27 1/2" to 29 7/8")

Rockhopper penguin



45 to 58 cm  
(17 3/4" to 22 3/4")

Macaroni penguin



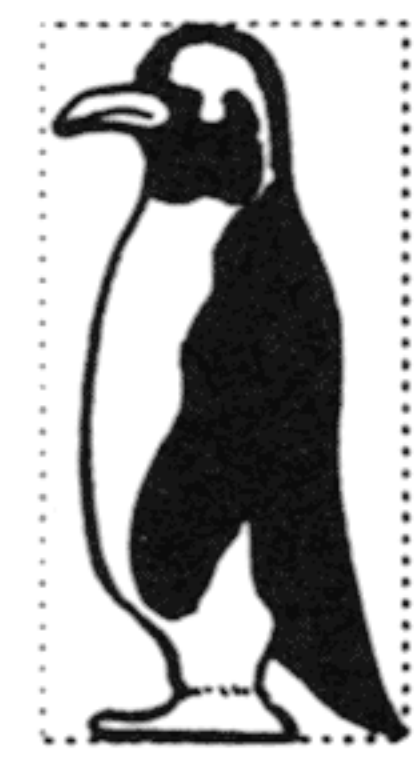
69 to 70 cm  
(27 1/8" to 27 1/2")

Humboldt penguin



66 to 72 cm  
(26" to 28 3/8")

Cape penguin



68 cm (26 3/4")



# Tropical Fish

From a side view, the angelfish fits into almost a perfect square.

Angelfish

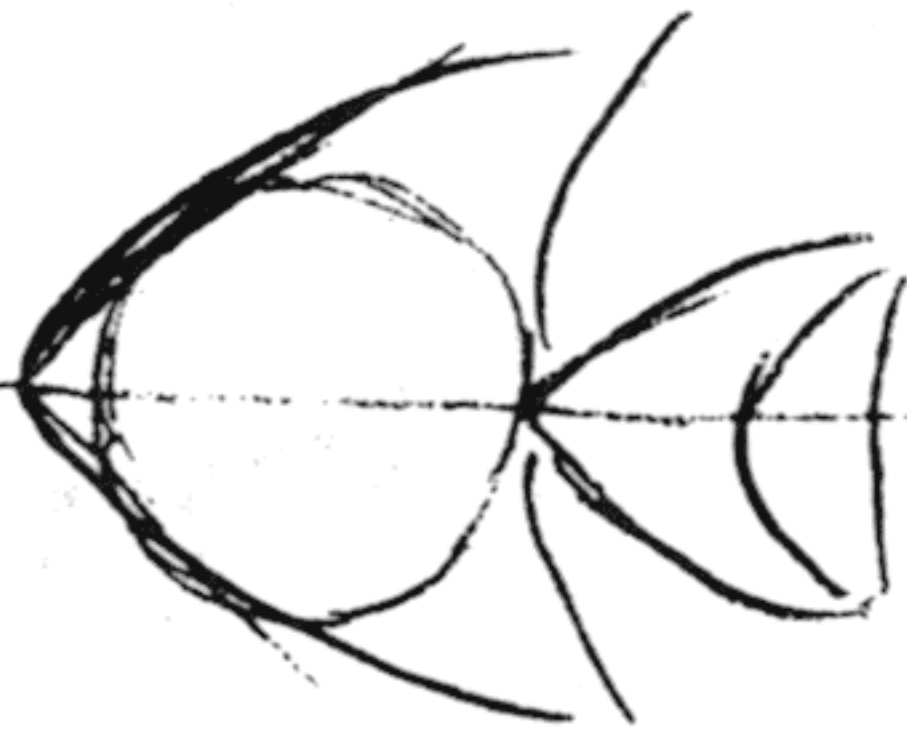
Easy Peasy Angelfish



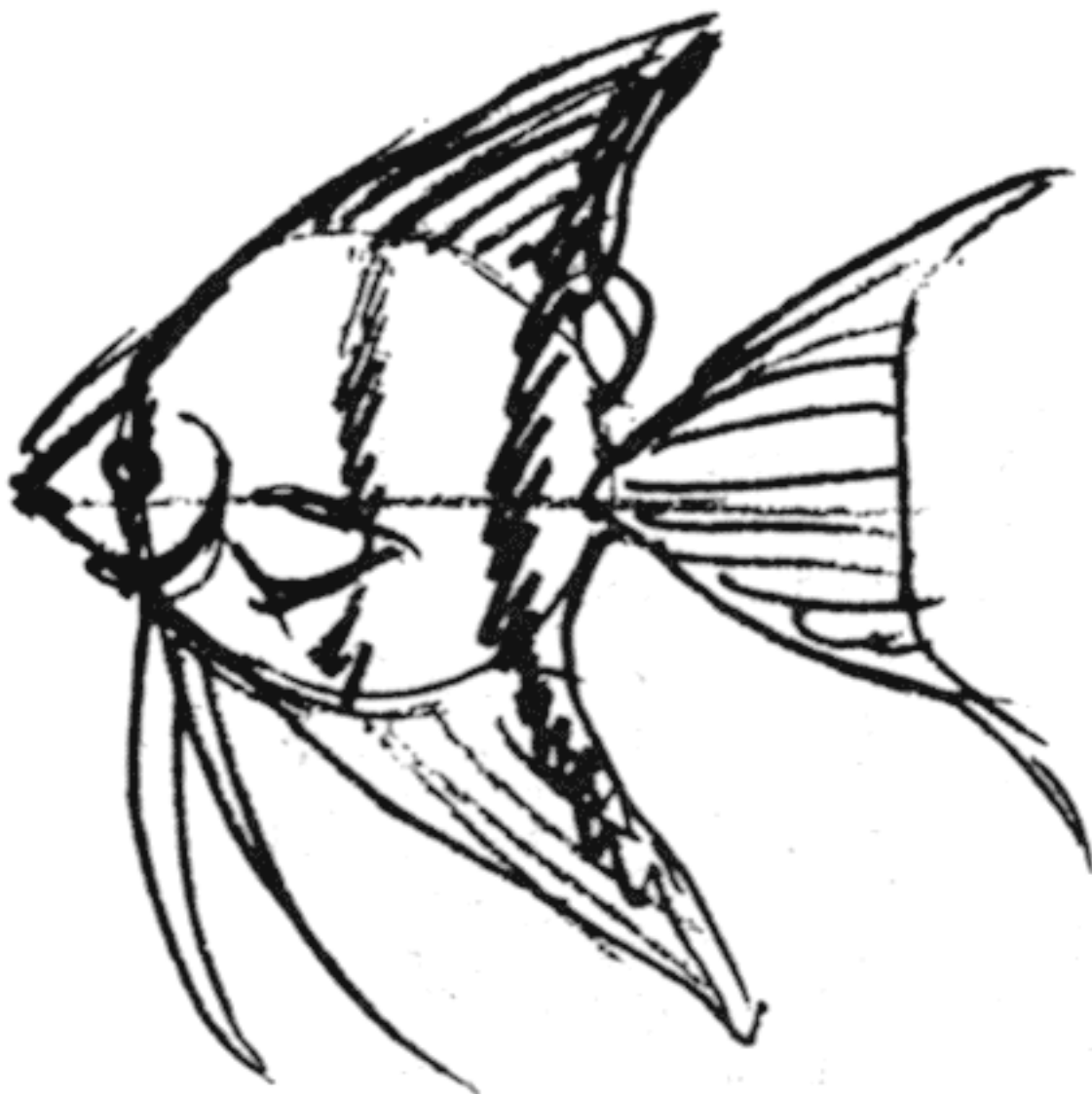
1. Draw a circle.



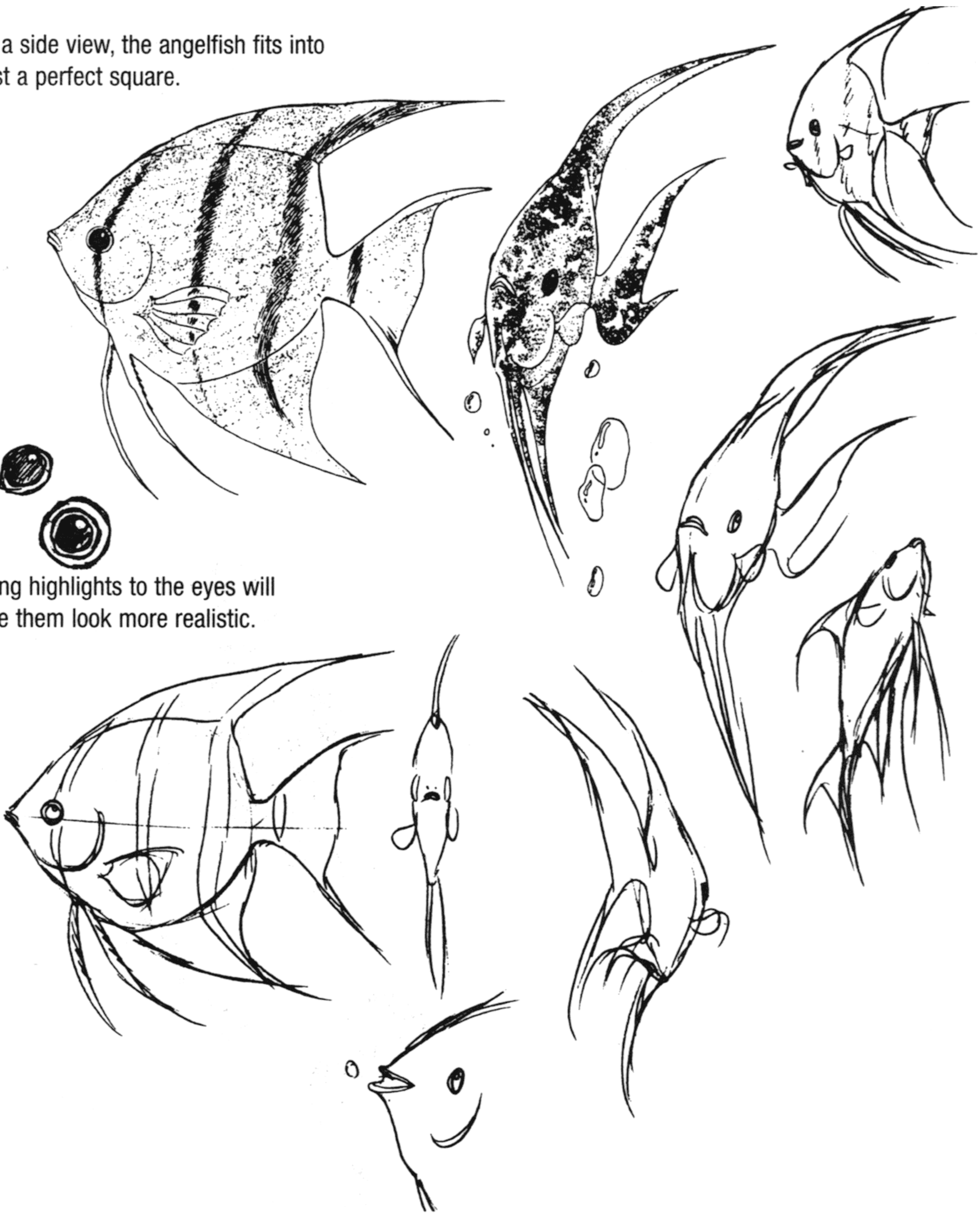
2. Draw an arrow.



3. Draw the contours.

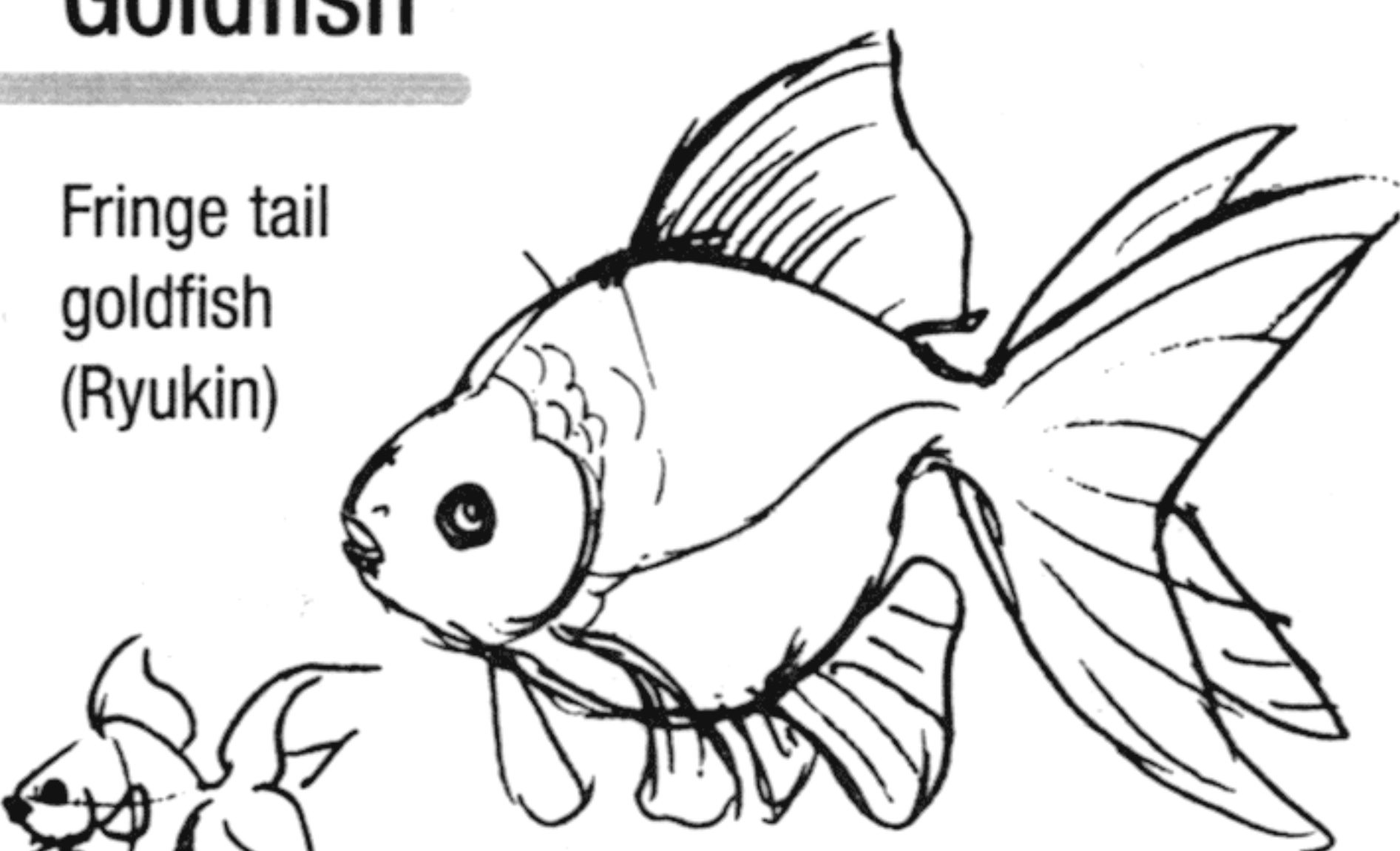


4. Add the fins and draw the coloration pattern.

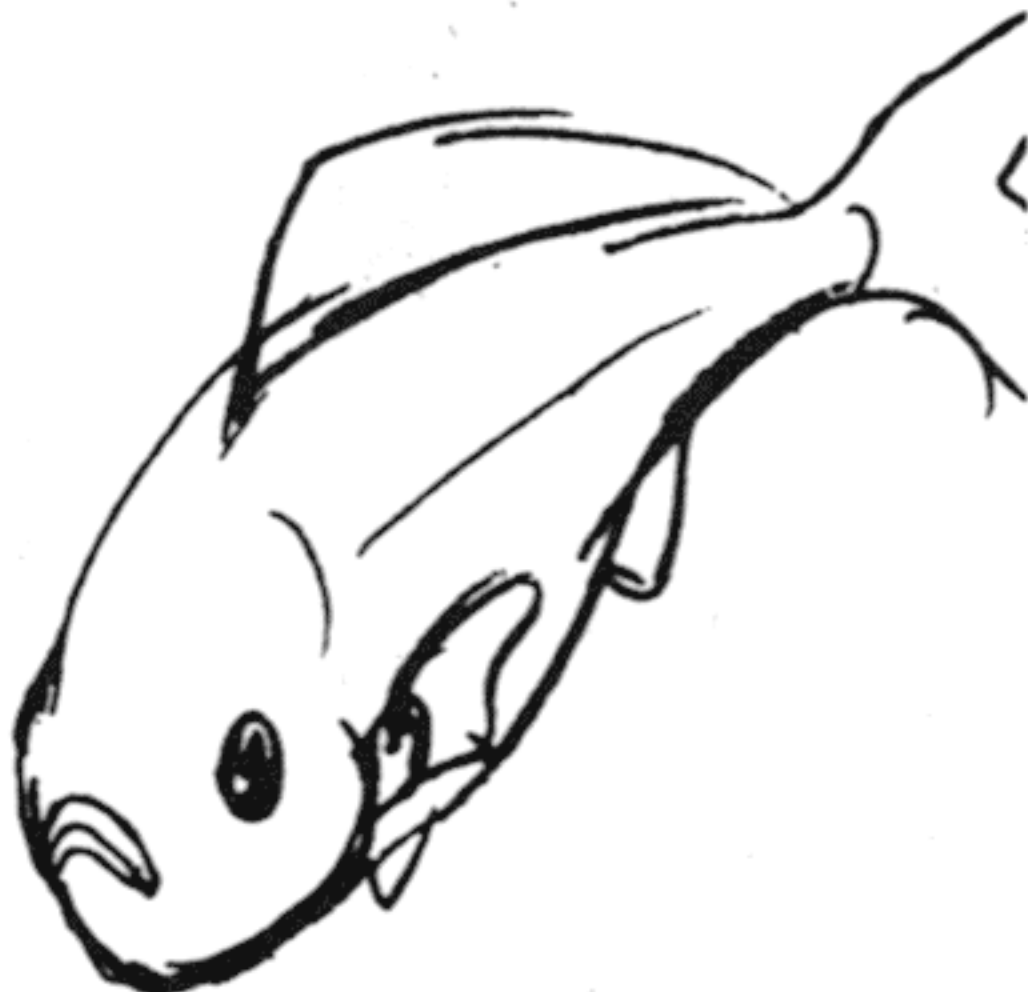
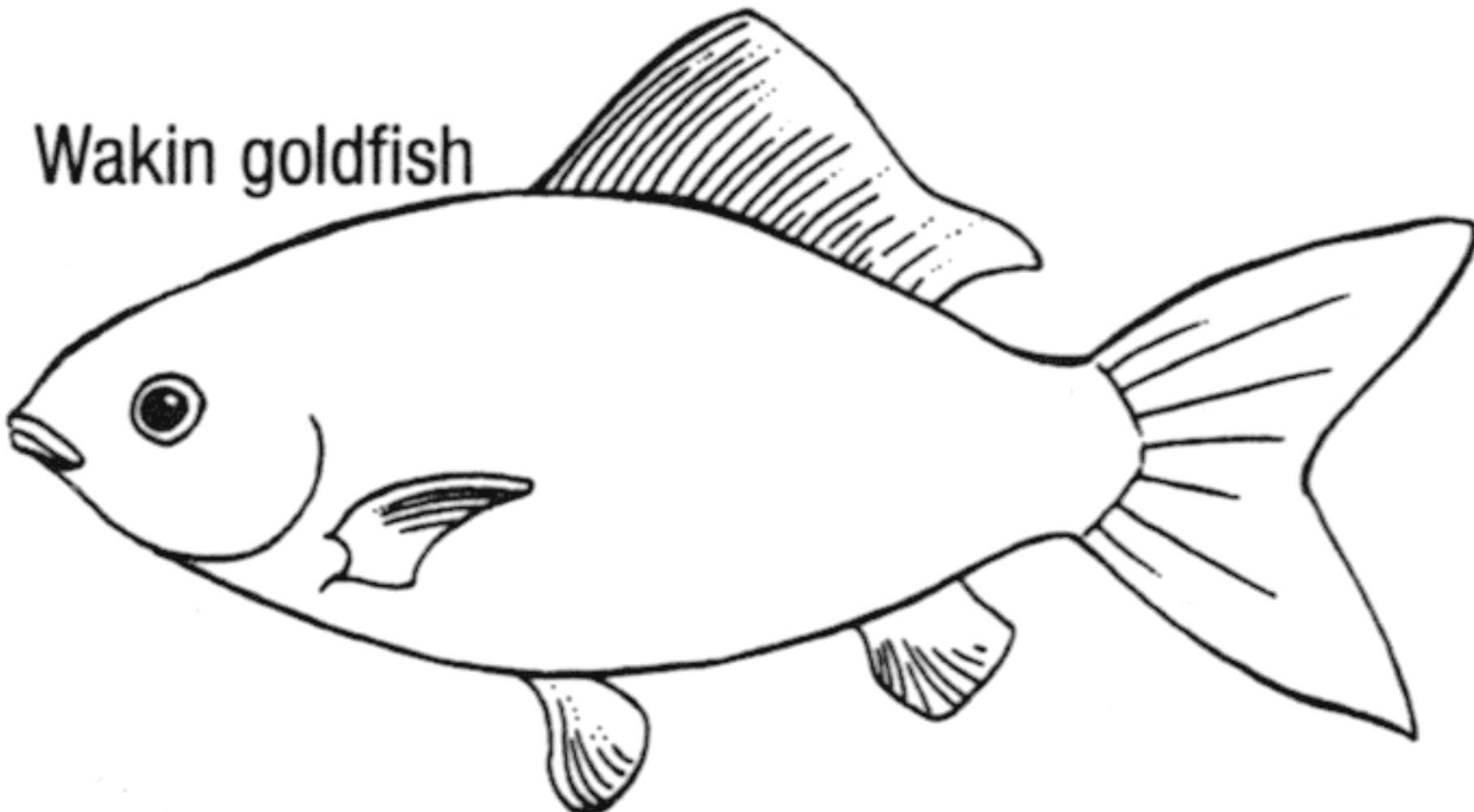


# Goldfish

Fringe tail goldfish (Ryukin)



Wakin goldfish



140 Draw fluttering fins and tails to impart a sense of movement.